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THE CHEMIST AND DRUGGIST

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Abonnementspreis:—The Chemist and Druggist einmal wöchentlich, und Notizkalender des Chemist and Druggist einmal im Jahre, 10 Mark jährlich, frei in's Haus geliefert.

Precio de suscripción: The Chemist and Druggist, una vez por semana, y el Agenda del Chemist and Druggist una vez al año, 12.50 pesetas anuales franco.

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OLD BATTERSEA STATION,
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The Chemist & Druggist

SUPPLEMENT

SATURDAY, MARCH 20, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

WE CAN DO IT!

The Circulation of
"The Chemist and Druggist" Supplement
next week, March 27, will exceed

14,000

Take advantage of it by advertising your wants.
If you want a Business, or wish to sell one;
If you have a Situation vacant, or wish a Situation,
You cannot do better than advertise in this Supplement.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C.,
NOT LATER than THURSDAY, MARCH 25, at 5 P.M.; but send
earlier if you can.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£1,100.—**LONDON (Good-class Suburb).**—Dispensing and Light retail Business; returns, including small Branch, £1,100 per annum; *net profit* £300. The shop is handsomely fitted and well stocked; commodious residence on lease; price £900.

2.—£400.—**LONDON, S.E. (Residential Suburb).**—Dispensing Retail and Prescribing Business; returns present rate nearly £400; well-fitted shop and good stock; good house, rent £36 yearly; price £300.

3.—£1,200.—**LONDON (Residential Locality).**—Good-class Dispensing Business, well situate in a main thoroughfare, corner position; between £1100 and £1,200 yearly; *net profit large*; commodious house, on lease; price £1,200.

4.—£900.—**LONDON, N.W.**—Retail and Dispensing Business; returns nearly £900 yearly, with *good profits*; handsomely-fitted Pharmacy; large and well-selected stock; good residence on lease; price £850.

5.—£650.—**WHITECHAPEL.**—Old-established Business, situate in the main street; returns under manager, £650; *profits large*; the shop is well fitted and stocked; nice house, private entrance; price to be arranged; offer wanted.

6.—£600.—**WEST-END (Neglected Business).**—First-class Dispensing Business, situate in close proximity to the Langham Hotel; returns present rate about £600, has returned £1,600 yearly; commodious residence, 28 years' lease; price £500.

7.—£400.—**LONDON, S.E. (Residential Locality).**—Good-class Dispensing and Retail Business; returns £400, increasing; the shop is well fitted and stocked; convenient premises; price £250.

Particulars of any of the above
N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.

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37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.

NO CHARGE TO BUYERS.

£700 returns.—**NORFOLK**.—Good-class Retail; in good position of important town; net profit £200; good house; price £650.

£350 returns.—**LANCS.**.—Old-established, in prominent position of large town; can be much increased by personal attention; valuation about £500.

£900 returns.—**LONDON**.—Large and handsomely-fitted Pharmacy; net profit £300; long lease; price £800, or valuation of stock and fixtures.

£700 returns.—**MIDLANDS**.—Good-class Country Retail; rising market town; exceptionally good house, garden, conservatory, &c.; price £550; open to offer.

£1,300 returns.—**WARRICKSHIRE**.—Light Retail, fair Dispensing and own Specialities; net profit £400; good residence; price £950.

£820 returns.—**BIRMINGHAM** (Suburb).—General Store trade, Prescribing, &c.; low rent; price £700.

£900 returns.—**SOUTH WALES**.—Light Cash Retail, in good class growing district; good house; long lease; net profit £250; price £600.

£500 returns.—**LONDON, S.E.**.—Very profitable Prescribing and Light Retail, on main road; good house; price £300.

£800 returns.—**LONDON**.—Light middle-class Retail; can, with personal attention, be much increased; fair house; rent £30; long lease; price £550.

£700 returns.—**LANCS.**.—General Mixed Retail; net profit £200; price £500.

£500 returns.—**BURNLEY**.—General Mixed Retail and Prescribing; rent £18; price £150.

£550 returns.—**STAFFS.**.—Light Retail, Prescribing, and own Specialities; illness cause of sale; price about £450.

Vendors of good businesses can be at once supplied with buyers by F. J. BRETT.

VALUATIONS.

F. J. BRETT has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

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Established 1870.

1.—**SOUTH COAST**.—High-class Retail and Dispensing Business, carried on practically under management, and producing a net profit of over £600 yearly, with scope for doubling the same; large house; price £2,100.

2.—**SOUTHEND-ON-SEA**.—Branch Business, Light Retail and Dispensing; present return £5 weekly, under management, will do £14 in season; rent £35, 20 years' lease; good house; price £200; splendid chance for young man.

3.—**BEDFORDSHIRE** (Market Town).—Light Retail, Dispensing, and Prescribing Business; returns about £900; handsome double-fronted shop, well fitted and heavily stocked; good house and large garden; scope for considerable increase; price £750.

4.—**GLoucester** (Suburb).—Unopposed Retail and Prescribing Business, returning £5 weekly; well situated in good corner position; rent £25; good house; well fitted and stocked shop; price only £100 to effect speedy sale; a great bargain.

5.—**CITY OF LONDON**.—Splendid position; quite unopposed; Light Retail and Prescribing Business; returns £1,000, mostly full prices, scope for increase; shop is elegantly fitted in mahogany; net profit £350; price £650 on reasonable offer.

Particulars of the above and others free on application.

BUSINESSES WANTED.

We are in want of two or three genuine Businesses returning £700 to £1,500 yearly, where the net profit is not less than 25 per cent. Gentlemen thinking of relinquishing business are respectfully requested to communicate with us. Through the number of our daily callers we often introduce a purchaser in a few days. Terms on application.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

NO CHARGE TO PURCHASERS.

35 JEWRY ST., FENCHURCH ST., CITY.

60

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VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

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ISLE OF WIGHT.—An old-established Family and Dispensing Business, in best part of a busy town: returns (under management) nearly £800; must be sold, and to effect a speedy sale a moderate premium for the good will and a valuation will be accepted.

BUCKS..—An old-established good-class Retail and Dispensing trade; returns nearly £800; very profitable; price £750, or offer; very handsome pharmacy and good house.

SURREY.—Good-class Family trade; returns £650; rent £65; large and convenient house; price £600; well recommended.

40 MILES FROM LONDON.—A good-class Retail and Dispensing trade; returns £750; price £700; good house, with modern conveniences.

NEAR LONDON.—Good middle-class Family trade, with excellent sale of own Proprietaries; returns £980 last year, and increasing; splendid opening for a Dentist; price £800, or offer; moderate rent, long lease, and very convenient residence, fitted with modern appointments.

MIDLANDS.—Pleasant market town; returns £650; price £600 or offer; good house at a moderate rental; nice garden, &c.

BURNLEY.—Branch Business for Sale; returns £400; price, valuation of stock and fixtures.

YORKSHIRE (Good Town).—Branch for Sale; returns £550; rent £70; price, valuation of stock and fixtures only; good bold premises, and plenty of scope for a pushing man.

MIDLANDS.—An old-established good-class Family and Dispensing trade; for many years in present hands; returns £1,000, very profitable; price £1,000 or offer; exceptionally good house and garden.

KENNINGTON, S.E..—Old-established Retail and Prescribing trade; returns £350; moderate rent; price £300; very few Patents sold.

WHITECHAPEL.—Very profitable Retail and Prescribing trade; returns £500; price £350; fine bold corner position and good house.

LONDON, W..—Good-class Retail and Dispensing Trade; giving a net profit of £480 a year; price £1,350; fine commanding corner premises and handsomely-fitted shop with excellent house.

Full particulars of any of the above sent free on application.

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1.—**LONDON**.—Residential suburb; Light Retail and Dispensing Business; superior fittings; good residence; net profit £300; price, including valuable lease, £900.

2.—**EAST COAST**.—Family Retail and Dispensing Business; commanding double-fronted shop in leading position; returns about £750; price 600 guineas.

3.—**BERKSHIRE** (Market Town).—Light Retail and Dispensing Business; large double-fronted shop; good residence, private entrance; returns £800; price £650.

4.—**LONDON** (11 miles out).—Unopposed Dispensing, Prescribing, and Light Retail; handsome shop; suit single man; house let to nearly cover rent, leaving good bachelor quarters; returns £550; price £235.

56 CHEAPSIDE, LONDON, E.C.
(Next Door to Bow Church.)

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CHEMISTS' TRANSFER AGENTS AND VALUERS,
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BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bona-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

BUSINESSES FOR DISPOSAL of various classes, and amounts of returns ranging from £200 to £4,000. Particulars given to bona-fide applicants stating outline of requirements.

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Telegraphic Address—"TOMTOM."

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

A BERDEEN.—Drug Business for Sale.—The old-established Business of James Sim & Company, Wholesale and Retail Chemists and Druggists, 76 King Street, Aberdeen, is for Sale by Private Tender. The stock, which is fresh and in good order, amounts per Inventory and Valuation to £826. Full particulars may be learned on application to John Craigen, Solicitor, 7 Union Terrace, Aberdeen, with whom offers may be lodged up to Monday, 29th March current.

BURTON-ON-TRENT.—To be Disposed of, by private treaty, as a going concern, that old-established Business of Chemist and Druggist, No. 95 High Street, Burton-upon-Trent, carried on for many years by the late Mr. Edwin Hodson, with the stock-in-trade, goodwill, fixtures and fittings. Apply to Mr. Charles Harrison, Land Agent, 179 Horninglow Street, Burton-upon-Trent.

CARDIFF.—For Sale, Chemist's Business, situated in a thickly-populated part of Cardiff; established 4 years; very profitable trade; open to investigation; for quick disposal will accept £120; reason for disposal distance too great from principal shop. Apply, W. R. Williams, Chemist, King's Road, Cardiff.

CLIFTON.—For immediate disposal, old-established good-class Dispensing Business, with Light Retail, situated in best part of Clifton; returns average over £1,000, and capable of extension; shop well stocked and fitted; open to strict investigation. Apply, A. C. Palmer & Co., Chartered Accountants, St. Stephen's Avenue, Bristol.

DERBY.—Exceptional opportunity; average returns, £450; price about £320, including two specialities alone worth £20 per annum profit; corner shop with house, in busy thoroughfare, rent low; domestic reasons sole cause of sale; business established 25 years. Apply A.P.S. (51/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ESTERN COUNTIES.—Vendor, for family reasons, is obliged to leave locality after an occupancy of 35 years; the Business is a General Retail, with Wine and Spirit Licence, and returns £500 now; price about £200; no reasonable offer refused; a younger man, conducting business on up-to-date principles, could make a large return; house is large; rent £35 on lease, or vendor will sell the freehold if desired. Apply "Hunts," c/o F. J. Brett, Valuer, 37 Waterloo Street, Leicester.

GLAMORGANSHIRE.—Market town, 10,000 inhabitants; ready-money Retail, Dispensing, and Prescribing Business; returns over £1,000, and making £400 net profit; good house, on lease; large, well-fitted, and heavily-stocked shop; intending purchaser can have trial behind counter; price £750 "Glam." (55/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GLoucester (just outside City in respectable suburban position); nice double-fronted corner pharmacy, two windows main road; well stocked; taking £5 a week, could easily take double; good modern house, seven rooms, nice garden; rent £28, yearly tenancy; owner, reluctantly obliged to sell at once, will accept £100 from an immediate purchaser. Address, 395 Citizen Office, Gloucester.

GREAT YARMOUTH.—Season soon commencing.—To be Sold, for value of stock and fixtures, no goodwill asked. Light Retail, Dispensing, and Prescribing Business; returns £800 yearly; net profit over £200; convenient 10-roomed house, bath-room; old-established and in excellent position. "Radix" (53/19), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LANCASHIRE.—£475; capital Cash Business for immediate Disposal, in good Lancashire town; Light Retail, with good Proprietaries; taking about £15 weekly; ill-health the cause of sale; exceptional opening for energetic man. "Auri" (54/15), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LANCASHIRE.—Bargain, in good Lancashire town; light Cash Retail, and own Proprietaries; smart shop; modern mahogany fittings, excellent stock; takings about £750; house medium size, with private entrance; rent only £26; vendor, leaving England, will accept £450 to effect a prompt sale. "Genuine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, S.W.—Old-established Retail and Prescribing Business; well situated; same hands 13 years; good position and unopposed; sales £530; net profits £210; long lease, low rent; good scope for Dentistry; large house, with side and back entrance. Address "Chemist," c/o J. Miller, 3 Park Place, Albert Gate, Knightsbridge, S.W.

LONDON, W.—Genuine Cash Retail and Prescribing Business, in densely-populated neighbourhood, with little opposition; increasing returns; must sell at once; exceptional opportunity; shop well fitted and stocked; good house; price £350, £150 can remain. "Prescriber" (54/3), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON (West End).—£1,300.—A first-class Family and Dispensing Business for Sale, through the advanced age of the proprietor, who is desirous of retiring; returns £1,470; rent £85; price £1,300; exceptionally good profits. Apply, A. G., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

M ANCHESTER (near).—For Sale, a small Mixed Drug Business; returns over £400; will grow; rent £32; price £275. Address "Pilule" (51/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

N ORFOLK.—An old-established Retail Chemist's Business, in a thriving market town, to be Sold at once under exceptional circumstances; the business is capable of considerable development, and this is a very advantageous opportunity. Full details on application to Smith & Sons, Wholesale Druggists, Norwich.

P RESTON, LANCS.—£70.—Prescribing and Light Retail; no patents; satisfactory reasons for disposing. Apply N.T.C. (48/25), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

R OCHDALE.—£450 will purchase the old-established Drug Store, Building and Stock, ground-rent £6, at 21 Milrow Road, Rochdale, Lancashire. Apply 41 Milkstone Road, Rochdale, Lancs.

Y ORKS. (West Ridings).—Light Retail and Prescribing Business with Post Office, in good position, suburbs of thriving town; no opposition; returns last year under manager £380, capable of considerable improvement under personal management; P.O. pays half rent; satisfactory reasons for disposal; price £220. Apply "Maranta," c/o Bleasdale (Limited), York.

F OR DISPOSAL.—Old-established country Chemist's Business, with good Prescribing connection; very remunerative; large double-fronted shop, plate-glass windows, store-room above; good house and garden; excellent opening for Dentist; returns last year under management £578, capable of great increase; every investigation courted; aged proprietor retiring; price £400, cash down. Apply 50/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

F OR immediate Disposal.—Returns £370; price £300; profitable; no patents; bona-fide buyers only. 47/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

F OR immediate Sale. a genuine Light Retail, Dispensing, Family, and Prescribing Business in town on River Thames; population about 6,000; exceptional opening for Dental work; prices good; no stores; good house, garden, greenhouse, store; rent £50; long lease; good reasons for selling; private entrance; rooms: 3 sitting, 5 bed; kitchen, bathroom, usual offices; no agents; no cards; returns £800, increasing; price, with lease, &c., £860 cash. Apply, "Marcus" (50/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

I MEDIATE disposal.—Light Retail, Prescribing, and Dispensing Business; good-class neighbourhood; good house; corner shop; long lease; returns £12 per week under assistant; plenty of scope for increase with personal attention; first reasonable offer accepted. Apply, "Radix" (53/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

O LD-ESTABLISHED cash Retail Business in densely-populated district for immediate disposal; mahogany-fitted and fully stocked; returns over £500, full prices; excellent reasons for disposal. Apply, John Whittle, Auctioneer, 102 Fishergate, Preston.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

C ORNWALL.—Wanted to Purchase, a genuine Light Retail and Dispensing Business in Cornwall. Send full particulars to 53/5, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M ANCHESTER or Liverpool. Wanted, a good-class Dispensing Business; returns about £1,000 per annum; Manchester or Liverpool district; can pay cash. Apply, S. S. H., 2a Grove Street, Wavertree, Liverpool.

S OUTH COAST.—Wanted, genuine good class Business; net profits not less than £200 yearly; South Coast or Southern Counties preferred; must bear strictest investigation; a neglected business capable of increase not objected. All particulars in first letter, to "Confidantia," c/o Mr. Hughes, Chemist, Bognor-on-Sea.

S OUTH MIDLANDS.—Wanted, a Light Retail and Dispensing Business, returning £700 to £1,200; preferably within 100 miles of town, South Midlands, south or west of London; advertiser can pay cash; must bear every investigation; particulars received in strict confidence. "Chemist," 4 Cromwell Place, Cambridge Road, Southend-on-Sea.

WANTED. small Retail Chemist's Business; one that has been neglected would do, where there is an opportunity of working it up; price must be reasonable. Send full particulars to "Squills" (55/32), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

A RDWICK.—Good opening for small shop in large and growing working-class district, Ryland Street, Ashton Old Road, Ardwick; no other in the neighbourhood; no going. Alfred A. Smith, 10 Kilvert's Buildings, Withy Grove, Manchester.

TENDERS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

ST. MARY'S HOSPITAL, PADDINGTON, W.
CONTRACT FOR DRUGS, CHEMICALS, DRESSINGS, &c.**THE BOARD OF MANAGEMENT** hereby invite Tenders for the supply of Drugs, Chemicals, Dressings, &c., during the three months from April 15 to July 14, both days inclusive.

Tenders must be delivered in sealed envelopes, addressed to the Secretary, and marked on the outside "Tender for Drugs," on or before Saturday, 27th inst., at noon.

Forms of Tender may be obtained on application to the undersigned.

By order,

THOMAS RYAN, Secretary.

SITUATIONS OPEN

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL.

BIRKENHEAD.—A steady, competent Assistant (qualified), for Light Retail and Dispensing business; indoors. Address, stating age, experience, references, &c., J. Fawcett, Bebington, Birkenhead.**BIRMINGHAM.**—Assistant wanted (indoors), not under 22 years of age, for Light Retail and Dispensing. Apply, stating full particulars, salary required, &c., to Jarvis, Handsworth, Birmingham.**BRAINTREE.**—Junior: aged about 19; outdoors; Mixed Country Retail; no Sunday duty; time for study. Apply, giving full particulars, to Samuel Downing, 59 High Street, Braintree, Essex.**CAPE TOWN.**—Assistant required immediately, of good experience, holding Miur qualification, neat and accurate Dispenser, and write a good legible hand, aged about 23; Scotchman preferred; salary 1st year, £12 per month; 2nd year, £13; 3rd year, £14; sleeping accommodation provided; second-class passage paid out conditional on a 3 years' agreement being signed. Candidates, who must hold undeniable references, address "Cape," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.**CARDIFF.**—Wanted, a smart Junior Assistant, of good address and business habits, for a high-class Pharmacy Store; outdoors. Enclose photo (which will be returned), Anthony & Co., Chemists, Cardiff.**CHESTER.**—A competent Assistant (indoors), aged 24 to 29; must be an accurate Dispenser and accustomed to good class trade. Apply, with full particulars, to Messrs. Shrubsole & Son, City Pharmacy, Chester.**CHESTER.**—Wanted immediately, qualified Manager; important Brauch; exceptionally able business man, young, of good address and experience in active trade required. State age, references and salary expected (outdoors), to Jesse Boot, Nottingham.**COLONIAL.**—A qualified Chemist, aged 25 to 30, wanted for a high-class business in a large town in one of the British Colonies; climate healthy. Apply, by letter, to 75/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.**CROYDON.**—Wanted, a qualified Assistant for the Dispensing department; also an Assistant for the Retail Counter. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.**DUBLIN.**—Junior Assistant wanted for a good Dublin Retail and Dispensing establishment. Apply, with full particulars, to 75/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.**DUBLIN.**—Wanted, a reliable Senior Assistant (qualified) with good address and accustomed to good-class Dispensing and Retail. Send copies of testimonials and state salary (outdoors) to M. P. S. I., c/o Apothecaries' Hall, 40 Mary Street, Dublin.**DUNSTABLE.**—At once, smart, willing Junior or Improver for Light country trade; abstainer preferred. State full particulars, including age, height, salary required, references to two last employers, &c., to Joseph F. leous, Pharmaceutical Chemist, Dunstable, Beds.**FOLKESTONE.**—Junior Assistant required immediately; indoors. Please state age, height, reference, salary required, and when disengaged, enclose photo (to be returned), John Lea, Harbour Street, Folkestone.**GLoucester.**—Improver wanted (indoors) for a Light Retail and Dispensing business; no salary first twelve months. Send photo and full particulars to Higgs, Chemist, Gloucester.**GODALMING.**—Assistant, qualified, about 24, obliging and reliable, for good-class Retail and Dispensing business; send photo if possible. Edwards, Chemist, Godalming.**HARWICH.**—Wanted, about April 2, a steady and trustworthy Assistant, indoors, not under 22; need not be qualified if competent and good references; a comfortable home. Apply, stating age, height, salary required, and full particulars, with photo if convenient, to A. Worts, Chemist, Harwich.**JAPAN.**—First class opening in English Chemist's in Japan for qualified Assistant, about 25, with really good London experience; short hours; liberal salary. Full particulars to Dakin Brothers, 87A Leadenhall Street, E.C.**LEAMINGTON.**—Junior Assistant, about 21, with knowledge of best-class Dispensing. Full particulars, with carte, stating salary, to Hutton, Pharmaceutical Chemist, Leamington.**LONDON, N.**—Wanted, by the 12th of next month, a good Junior, one who has just completed his apprenticeship would suit; applications not answered in three days declined. Apply, H. J. Broad, 82 Church Street, Stoke Newington, London, N.**LONDON, N.W.**—Junior Assistant or Improver; indoors; two kept. Apply personally or by letter, stating age, height, salary required (enclose photo), C. Coutts Michie, 175 Kentish Town Road, London, N.W.**LONDON, S.W.**—Two Assistants, one qualified one unqualified; permanency. Full particulars to G. F. H. Bartlett, Chemist, Battersea.**LONDON, S.W.**—Wanted, Junior, unqualified (indoors), April 1st (about 23), in a good-class suburban business; one with a knowledge of Photographic Chemicals preferred; time for study. Write in first instance, stating all particulars, to Lawrence & Co., 125 St. John's Hill, New Wandsworth, S.W.**LONDON, S.W.**—Assistant, about 23, indoors, for Retail, Prescribing, and Dispensing business; Extractor preferred. Address, with full particulars, inclosing photo, Pretty, 235 North End Road, Walham Green, S.W.**LONDON, W.**—Young Man as Counterman wanted in Dental Depôt: one who has been in Chemist or Druggist Business preferred. State age, wages, and fullest particulars to M., 162 Great Portland Street, W.**LONDON, W.**—A qualified Assistant accustomed to good Dispensing business; indoors. Apply, personally, if possible, or by letter, stating age and salary required, to J. & H. Mathews, Chemists, 68 Queen's Gardens, Hyde Park, W.**LONDON, W.**—Assistant wanted; good Junior; not under 22; accustomed to high-class Dispensing and Retail; indoors; abstainer preferred. State experience, salary required, and enclose photo, or apply personally, R. H. Parker, 35 Clifton Road, Maida Vale, W.**LONDON, W.**—St. George's and St. James's Dispensary, 69 King Street, Regent Street.—Dispenser required for about two hours daily; salary £30 per annum. Applications, with copies of testimonials, should be sent to the Secretary at above address on or before Wednesday, the 24th March, 1897.**LONDON, W.**—Junior or Improver wanted, principally for packing and keeping up stock; must have good references; outdoors; 25s. week. Apply, any morning, to Mr. Vause, 297 Edgware Road, London, W.**LONDON, W.**—A qualified Assistant, at once (indoors), for Dispensing in West-end business; one about 23 preferred. Apply, with full particulars, to H. M., c/o Meggeson & Co., 14 Miles Lane, Upper Thames Street, E.C.**LONDON, W.**—Wanted, immediately (indoors), a reliable Assistant, about 23; must be a good Dispenser and Counterman; personal application preferred. Adams, 21 Formosa Street, Maida Vale, W.**LONDON, W.**—Wanted, Part-time Assistant, Minor qualification, about 22, to take duty four evenings in the week from about 5. Apply, in first instance by letter, to S. C. H., c/o George Waugh & Co., 177 Regent Street.**LONDON, N.E.**—Assistant, qualified, aged from 23 to 30, indoors, to take charge of a Branch. State age, height, experience, salary required, and enclose photo, Matthews & Son, 722 High Road, Leytonstone, N.E.**LONDON, S.E.**—Junior Assistant required; comfortable home; ample time for study and attending lectures. Apply, stating age, height, salary required, to W. Redpath, 357 Norwood Road, S.E.**LONDON, S.W.**—Qualified Assistant, about 24 years; good Dispenser. Newton Spyer, 13 Gledhow Terrace, South Kensington.

SITUATIONS OPEN CONT'D.

RETAIL—continued.

LONDON, W.—Required, a steady business-like Assistant, of good appearance and address; aged 23 or 24; need not be qualified, if competent and possessing good references. Apply, personally or by letter, stating height, salary (indoors), and enclosing photo, to W. V. Wright, roadway, Hammersmith.

MANCHESTER (district).—Qualified Assistant, with view to early success; Manchester district; must deposit £100 as bona-fides, in which 4 per cent interest will be paid till purchase is completed; this a chance of a lifetime; vend r going to Whole ale. Apply, C. (53/33), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MARGATE.—Wanted, during April, a qualified and competent Assistant, accustomed to good-class Retail and Dispensing; preference given to one desiring a permanency. Applications, giving full particulars of former engagements, age, height, salary expected, and enclosing arte, to D. T. Evans, Chemist, Margate.

MARLOW.—Junior Assistant required early next month; must be active, obliging, reliable, and well up in Photography. Apply, stating age, height, references, salary required, and enclose photo, to C. Page Dye, The Central Pharmacy, Marlow-on-Thames.

MIDLANDS.—Junior wanted; 3 afternoons per week for study and time for evening classes; must be well recommended and fair Dispenser; outdoors; Midland town. State age, height, salary, and enclose arte, to 52/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NATAL.—Assistant required immediately; must be single and possess the Minor qualification; about 25 years of age; of good experience and a good Dispenser; steady, active, and healthy; total abstainer preferred; salary, £12 10s. per month first year, £13 10s. second year, £15 third year; sleeping accommodation provided, but to find own board; second-class passage paid out conditional on a three years' agreement being signed. Address, "Natal," c/o Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

NEATH.—Junior, outdoors, by middle of April; hours 8.30 A.M. to 8.30 P.M., except Saturdays, and no Sunday duty. Apply, with usual particulars, to W. Hibbert & Son, Neath.

NOTTINGHAM.—Junior or Turnover at once for Mixed Business, with small Branch; knowledge of Paints; time for study; indoors. State usual particulars, reference, &c., Richard Widdowson, Bulwell, Nottingham.

NOTTINGHAM.—Lady Dispenser, with some knowledge of Nursing, required by doctor in Nottingham. Kindly give experience and salary required (outdoors) to 51 12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PRESTON.—Wanted, Junior Assistant; qualified; used to store trade preferred; half-holiday; Sunday duty alternately. State age and salary required to Livesey, Marsh Lane, Preston.

POTTON.—Wanted early in May, Assistant; Mixed Country Business; short hours, early-closing Thursday, no Sunday; Extractor preferred; good all-round man. State salary, &c., photo (to be returned)—no answer in three days, declined—Bond Smith, Potton, Beds.

SHEREWSBURY.—Wanted, immediately, a qualified Assistant; indoors. Apply, by letter, to W. Gowen Cross, Ph. O., Shrewsbury.

SLOUGH.—Assistant, qualified, indoors, Dispensing and Light Retail, wanted as soon as possible. Give age, experience, references, and salary required, personally or by letter, Griffith & Walden, Chemists, Slough.

SOUTHAMPTON.—Junior Assistant wanted for end of March; indoors; must have been accustomed to good-class Retail and Dispensing. Apply, stating age, height, experience, references, and salary required, enclosing photo (to be returned), J. Johns & Son, Southampton.

SOUTHSEA.—Cruse & Co., Chemists, Southsea, require early in April qualified Junior, accustomed to good-class Dispensing business; photo with application if possible.

TAUNTON.—Wanted, by a thoroughly practical and qualified Chemist (married), a situation as Manager or other position of trust, and to live on the premises preferred; highest references. Apply to Mr. F. Wellington, 2 Mount Terrace, Taunton.

TONBRIDGE.—Wanted, Assistant, for a good Retail and Dispensing business. State age, height, and salary required, indoors, send photo (to be returned) to F. G. Abel, Chemist, Tonbridge, Kent.

WHITEHAVEN.—Wanted, Junior Assistant; must be well up in general Retail, and good Counterman. State age, height, experience, with references and salary required, enclosing photo, to F. B. Bennett, Chemist, Whitehaven.

WOLVERHAMPTON.—Junior (qualified, outdoor) for General Retail, immediately; accustomed to Country trade; weekly half-holiday; no Sunday duty; hours 8 to 7.30, except Saturdays; comfortable situation for one seeking a permanency. State age, height, experience, and salary required, enclosing references and photograph, Read Brothers & Co. (Limited), Wolverhampton.

WORCESTER.—Outdoor Assistant as Counterman, where four are kept. Apply, with photo, stating age, height, and experience, to F. J. Kitson, The City Drug Stores, Worcester.

Head Counterman required, at once; one thoroughly used to his business; preference given to total abstainer: salary £2 per week and 5 per cent. commission. Address, B., c/o T. B. Browne's Advertising Offices, 163 Queen Victoria Street, E.C.

QUALIFIED Assistant, about 26; indoors; one requiring permanency preferred. Please state experience, age, height, salary required, and enclose photo (if possible), to "Statim," c/o Messrs. Hearon, Squire, & Francis, 38 Southwark Street, S.E.

QUALIFIED Assistant wanted for good-class Cash Pharmacy; a man with good experience would have prospect of a Branch Managership; references will be carefully investigated. Apply, with usual particulars, to "Reliable" (53/26), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED man wanted to manage Branch; good Mixed Business; must hold undeniable references covering at least five years. State all particulars in first letter—i.e., salary required, age, height, married or single; none but diligent and steady men need apply. Address, "Cinnamon" (73/68), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a qualified outdoor Dispenser, who has been used to dispense for a Medical practice. Apply by letter, stating particulars, to 44/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a smart Porter or Junior Assistant (outdoors), capable of looking after a Mineral-water Factory in country town; previous experience preferred, but not essential; Otto gas-engine used: fill in odd time putting-up stock or delivering goods. "Aerated," Sutton & Co., 76 Chiswell Street, E.C.

WHOLESALE.

LEEDS.—Traveller wanted, accustomed to calling upon Surgeons with Drugs and Instruments; liberal terms to a qualified gentleman. Address, with particulars, reference, and stating salary expected, Messrs. Reynolds & Branson, 13 Briggate, Leeds.

LONDON.—Sundries and Instruments—Competent Assistant wanted to take charge of these departments in London Wholesale Druggists'; good previous experience essential. Full particulars, and salary required, to S. S. 435, c/o Deacon's, Leadenhall Street.

PILL MAKERS.—Wanted, immediately, a good Cutter, able to coat, and accustomed to hand machines; also a Temporary Hand. Apply, stating age, experience, and salary, to 52/20, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER for Office and Warehouse wanted by Wholesale Agent for various Specialties. Apply, by letter, stating age, experience, references, and salary expected, X. Y. Z. (72/58), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PICKLES and Sauces.—Wanted, a competent Foreman, who thoroughly understands this work in all its details. Give references, experience, age, salary required, and fullest particulars in first letter; good permanency for a reliable man, with superannuation prospects. Apply 49/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

APPRENTICESHIPS.

RETAIL.

COALVILLE.—Wanted, a gentlemanly youth as Apprentice; one who has passed his Preliminary preferred; outdoors; small salary given. Apply, Jno. Porter & Son, Coalville, Leicestershire.

LONDON, S.E.—Wanted, well-educated Youth as an Apprentice for Chemist; one that has passed the Preliminary or equivalent preferred; good home; premium moderate. "Elliston," 8 Selhurst Road, South Norwood.

WORCESTER.—A vacancy occurs for a gentlemanly youth as Apprentice in the good-class Dispensing and Retail Business, conducted by John Chambers, The Tything, Worcester; must have passed Preliminary or equivalent; moderate premium required.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

JUNIOR; 6 years'; aged 21; good references. S., 11 Elm Grove, Southsea.

ASSISTANT; 24; London experience. T. Kiluer, 39 Preston Place, Bradford, Yorks.

PART-TIME; good London experience; evenings free. H. E. G. Menter's, Kennington Road.

DISPENSER, Prescriber; 22; 4 years' experience; abstainer. Wyse, 51 Talbot Street, Southport.

IMPROVER; 18 $\frac{1}{2}$; 4 $\frac{1}{2}$ years' experience; photography. Tully, c/o Padley, Wooler, Northumberland.

JUNIOR or Improver; 19; excellent experience all departments. E. Smith, Bank, Barnard Castle.

ASSISTANT; aged 24; 5 ft. 10 in.; 8 years' experience; Extractor. O., 39 Rawling Street, Keighley.

QUALIFIED; 29; disengaged. 53/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED; 27; London; outdoors; Dispensing preferred. 34 Osborne Terrace, Clapham Road.

DISPENSER to Surgeon; disengaged; excellent references; aged 33. P. F. Browne, Becket House, Oxford.

MANAGER; qualified; excellent references. "Chemist," 50 Flaxman Road, Loughborough Junction, S.E.

ISENGAGED; aged 36; height 5 ft. 4 $\frac{1}{2}$ in.; 13 $\frac{1}{2}$ years in last situation. Lelean, 40 Hauteville, Guernsey.

PART-TIME; 22; London; studying for Minor; good experience. A. Poxon, The Limes, Brownhills, near Walsall.

PRIL.—Good all-round man; 26; 8 years' first-class experience; London preferred. H., 11 Elm Grove, Southsea.

ASSISTANT or Dispenser to Surgeon; experienced; town or country; 33. Peacock, 2 Powerscroft Road, Clapton, N.E.

LOCUM; qualified; disengaged; first-class London experience; good Dispenser. "Chemist," 118 Kingsland Road, N.E.

MANAGERSHIP, by qualified Chemist and Dentist; married. "Chemico," Plant Cottage, Bollington, Cheshire.

ASSISTANT; 31; outdoors; unqualified; good reference; disengaged. "Statin," 7 Oxford Terrace, Cambridge.

MANAGER, Locum, or Assistant; registered; married; disengaged. J., 11 Brook Road, Ashley Road, Bristol.

ASSISTANT; disengaged; aged 24; tall; 2 $\frac{1}{2}$ years in last situation. Address, No. 2 Church Lane, Neyland, Pembrokeshire.

PHARMACEUTICAL Chemist, exam.; married; Manager or Locum; disengaged April. Head, Swineshead, Boston.

ASSISTANT; aged 22; outdoors; 5 years' experience; Leeds or district preferred. Monkman, Empress Hotel, Harrogate.

ASSISTANT; 26; 5 ft. 11 in.; 10 years' good and varied experience; North preferred. "Mancestrian," 2 Omega Street, Southsea.

ASSISTANT or Manager; qualified; 26; outdoors; London preferred; first-class experience. S., 116 Church Street, Paddington, W.

OUTDOORS; whole or part time; Prescribing, ordinary Retail; disengaged. Morris, 189 St. Leonards Street, Bromley-by-Bow, E.

JUNIOR (20), 5 ft. 10 in., good Dispensing experience, desires situation in first class business. Slatter, 35 High Street, Weston-super-Mare.

ASSISTANT; unqualified; married; view to succession; Extractor; Photography; experienced. "Chemico," Gorseddau, Glamorgan.

JUNIOR; 24; disengaged; unqualified; good references. "Statin" (54/6), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; indoors; 20; tall; five years' experience, Retail and Dispensing; time for study preferred. Fowler, Wesley House, Southboro'.

ISENGAGED April 20; qualified; steady; good references; 28; Manchester district. "Chemist," 52 Laurel Terrace, Wilson Street, Bury.

DISPENSER seeks engagement; 12 years' experience; or would do Locum; excellent references. "Dispenser," 288 Vauxhall Bridge Road.

ASSISTANT or Dispenser; 12 years' experience; outdoors preferred; height 5 ft. 11 $\frac{1}{2}$ in.; aged 29. Thompson, Thorofare, Woodbridge, Suffolk.

JUNIOR; 20; height 5 ft. 10 in.; nearly six years' experience; disengaged April 9; Bath district preferred. Derman, High Street, Titchfield.

IMPROVER in Dispensing business; 4 $\frac{1}{2}$ years' experience; disengaged. "Radix" (54/25), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM; 29; tall; good experience and references; disengaged throughout Easter and summer months. "Chemicus," 45 Bouvierie Street, Leicester.

SURGEON'S Dispenser, with incomplete knowledge of Pharmacy, wants post as Porter, &c. Apply, "Extractor," 12 Stockwell Park Walk, Brixton.

ASSISTANT; 25; Chemist or Surgeon; good Dispenser and counter-man; experience, London and provinces. R., 1 Brynteg Terrace, Upper Bangor.

MANAGER or Assistant; qualified; with view to succession; outdoors; aged 33. A. B. (43/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Locum; disengaged; London and country experience; Chemist and Dentist; 48; single; good Prescriber, &c. W., 13 West Square, S.E.

TEMPORARY Assistant; many years' experience in London and country; first-class references; disengaged. "Chemist," 54 Wellesley Road, Ravenscourt Park, W.

ASSISTANT (24) in high-class business; experienced (including French); home or Continent; indoors; unqualified. "Statin," 27 Great Tower Street, London.

ASSISTANT; 25; 10 years' experience; unqualified; married; Dispense, Prescribe, Extract; good references. Wilkes, Brooklands, Chester Road, Whitchurch, Salop.

COUNTERMAN, Dispenser, or Traveller; thoroughly experienced; first-class references; outdoors; knowledge of Photography. "Tarax," 10 Aden Road, Taunton.

SENIOR or Manager; 25; tall; Minor; first-class West-end and provincial experience. "Linsol" (52/13), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RESIDENT Manager or outdoor Assistant; qualified; married; good Prescriber, Extractor, &c.; permanency; has furniture. "Chemist," Grimsbury, Banbury, Oxon.

MINOR; temporary or permanent; aged 35; height 5 ft. 5 in.; London and country experience; single. J. H., 47 Bishop Street, Waterloo Road, High Town, Manchester.

MANAGER; qualified; temporary or permanent; Dispenser, Prescriber, Extractor; town and country experience; excellent references. H. E., c/o Smith, Chemist, Colchester.

DISPENSER; Apothecaries' Hall qualification; Medallist in Chemistry and Pharmacy; abstainer; 6 years' experience; London or suburbs. "Dispenser," 17 Brompton Road, S.W.

FRENCH Assistant (27), 7 years' experience (3 in English Pharmacy), seeks situation; London or seaside; can write English, but does not speak well. M., 88 Norwood Road, London, S.E.

PART-TIME, in London, convenience for day or evening classes; April; first-class experience and references. "Minor" (54/34), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER.—Pharmaceutical Chemist, tall; good address; aged 35; married; London only; highest references. M. P. S. (52/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; 25; qualified; first-class Dispensing and Retail; London and country experience; permanency; disengaged; London preferred; no stores. Allison, Westfield, Retford.

ASSISTANT or Mauager to Chemist, Dispenser to Surgeon (outdoors), or Representative; aged 26; 11 years' experience; excellent references. James, 4 George Street, New Quay, Cardiganshire.

LOCUM or Temporary engagements from May; Minor; 25; tall; first-class West-end and provincial experience. "Crescol" (53/13), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER (buying included) of large London Drug-store seeks re-engagement middle of April; Prescribing, Extracting, and Photography; aged 27. "Delta," 132 Windsor Road, Forest Gate.

MANAGER to Branch, or Assistant; Prescriber, Dispenser, Tooth-extractor; disengaged; married; outdoors; varied experience; middle-aged; permanency desired. "Tbeta," 1 Tanning Street, Lowestoft.

DISPENSER to Doctor or Institution; Midlands; aged 34; have filled similar positions; qualified, accurate, and quick; references. M.J. (54/18), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED CONT'D

RETAIL—continued.

MANAGER (Temporary); Registered; town or country. Baker, 154 Fortress Road, N.W.

MANAGER; temporary or permanent; qualified; aged 43. O. M., 1 Stratford Villas, Camden Square, N.W.

QUALIFIED desires London engagement; good Dispenser. "Rhei," The Chemists' Club, Farringdon Avenue, London, E.C.

MANAGER; 35; qualified; permanency, where energetic services would lead to interest in business. C., 19 Railway Side, Barnes.

ASSISTANT or Manager; good references; Minor; thoroughly experienced; aged 40; disengaged March 28. Lea, March, Cambridge.

QUALIFIED, 24, wishes engagement; height 6 ft.; knowledge of Homeopathy; London preferred. Apply, "Taraxacum" (55/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHARMACIEN (25), experienced, speaking French and German, wants engagement as second Assistant in good Pharmacy; London preferred. J. Schmitt, c/o Ackermann's English Pharmacy, Geneva, Switzerland.

MANAGER; qualified; Midlands preferred; aged 34; height 5 ft. 7 in.; abstainer; 17 years' all-round experience; Prescriber and Extractor; good at Mechanical Dentistry; married; excellent references. Sumner, Burnley Road, Reedley, Burnley.

SOUTH AFRICA.—Qualified Assistant, about to settle in South Africa, desires engagement; Kimberley or inland town; highest references character and ability. "Plumbum," c/o Edwards, Chemist, Upper Church Road, Farncombe, Surrey.

A Laboratory Assistant, Stock-keeper, Clerk, and General hand, in Agricultural business; experienced; aged 32; married; suit two active partners; last situation 3 years; highest references; disengaged. Reddell, Eastbrook House, Dinas Powis, Cardiff.

IMMEDIATELY after Easter, as Manager for Branch or Surgery; experienced in good ordinary and quick Cash trade; Apothecaries' Hall certificate; entered for Minor in April; good Dispenser and counter-man, successful Extractor and Prescriber; would take a genuine interest in working up business; Southern Counties or London. Address, "Melbourne," 5 Graham Road, Worthing.

WHOLESALE.

WET-COUNTERMAN or Dispenser, Wholesale house; good references. H. Rotheray, Rawdon, Leeds.

TRAVELLER; London; good references, connection; Drugs or Sundries. "Taraxacum," 29 Ifield Road, S.W.

LABORATORY Manager desires a re-engagement. Address "Radix" (48/32), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Assistant in Drug warehouse; Wholesale or Retail; 24; 7 years' experience; abstainer; good references. Cairns, Alison Place, Alnwick.

INVOICE Clerk to Wholesale firm, or as Traveller; would not object to Wet Counter or Laboratory in a good house; highest references. A.P.S., 358 High Street, Rochester.

AS Assistant or Town Traveller in Wholesale house; steady, reliable, energetic; 14 years' Mixed Retail; North or Midlands; references. "Manager," 41B Bourne Road, Spalding.

DRY Counter, Stockkeeping, Patents; applicant seeks re-engagement; 12 years' experience in first-class house; good references. R. W., 37 Gordon Street, Small Heath, Birmingham.

AS Traveller; good connection; Eastern Counties, Midlands, South Wales, West of England; Drugs, Sundries. 52/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; disengaged; Sundries and packed goods; London and suburbs; references and security. B. (55/30), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; good connection among Medical men and Chemists; Lancashire and Yorkshire; permanency. "Medicus" (52/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PATENT Medicines.—Advertiser requires situation; 14 years' experience as Buyer and Stockkeeper in Wholesale House. State offer to J. K. (52/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COMMISSIONS, with part expenses or otherwise, amongst Chemists, Grocers, and Hotels, over Lake Districts and Isle of Man; intimate with ground. "Lakes" (51/13), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER.—Pharmaceutical Chemist, aged 35, married, tall, good address, wishes to represent a good Wholesale house; highest references, "Pharmacist" (52/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SCOTCHMAN, young, energetic, desires appointment as Representative to good firm; Drugs or Sundries; 11 years' good varied experience in Retail; good references; reliable. Address, "Veritas" (51/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

UNITED STATES.—Drug and Chemical Agent in New York wants to represent British or Continental Merchants or Manufacturers; knows trade thoroughly; excellent connections and references. 42/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LEDGER or Invoice Clerk; young man, 33 years of age, married, desires situation as above, or any position of trust; 12 years' good reference from last situation; thorough good experience in the Wholesale; rapid writer, quick and accurate at figures; moderate salary; disengaged. F., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WILL undertake to design, sketch out, and write up all Advertisements, Pamphlets, for a Wholesale Drug Firm, and advise them upon all matters Pharmaceutical, Medical, or will take charge of Laboratories engaged in preparing Animal Substances; can procure supply of same, &c.; experienced. M. 100, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

FIELD, BREEZE & CO., LIMITED, are prepared to take up and push Sole Agencies for good paying lines. Terms to 70 Oxton Road, Birkenhead.

FIELD, BREEZE & CO (LIMITED), have a few spaces for high-class Advertisements (free) in their establishment. Apply, 70 Oxton Road, Birkenhead.

AGENCIES IN AUSTRALASIA undertaken by a Melbourne firm; personal and bank references given. Send full particulars, in first place, to A. Marshall, 4 Chichester Street, Paddington, W.

DALSY Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

CUCUMBER AND GLYCERINE.—Rouse's Cucumber Paste is the best for preparing Cucumber Emulsion of any kind; sheet of formulae and attractive labels free with each jar; $\frac{1}{2}$ lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lb., 25s.; each post free. Rouse Brothers, 61 Charlotte Street, London, W.

ASSISTANTS rapidly prepared personally and through the post for all examinations; 90 per cent. successful; numerous high passes at Major, Minor, and Apothecaries' Hall; competent tutors in all departments; difficulties solved free of charge. Write, Mr. G. E. Skerry, M.A., the City School of Chemistry and Pharmacy, 27 Chancery Lane, London.

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TO CHEMISTS AND DRUGGISTS.—The Koko Maricopas Company (Limited), 11 Gray's Inn Road, London, will supply a Flag and Pole (free) to be fixed over the shop, with the words in white letters, "Koko for the Hair," and with the name, &c., of Chemist underneath; this is found to be a splendid advertisement for Chemists and Druggists; a beautiful picture of Miss Ellen Terry (framed, 22 in. by 16 in.) can be had on application either to Messrs. Butler & Crispe, 82 Clerkenwell Road, London, or to the Company at above address; write for particulars.

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Exchange Column—Bargains

1½d. per word with name and address.

1d. per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

The Circulation of
"The Chemist and Druggist" Supplement
on March 27 will exceed

14,000

Take advantage of it by advertising Old and Surplus Stock, which can be turned quickly into cash by this means, and Apparatus, Books, &c., can be disposed of to advantage. The whole Trade reads this page.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, MARCH 25, at 5 P.M.; but send earlier if you can.

BARGAIN NUMBER,
MARCH 27, 1897.

APPARATUS.

Tincture-press, by Maw & Co.; used once; cost 75s., 40s. cash. O., 17 Exbury Road, Catford.

Coffee roaster and cooler, cost £16, price £9; also coffee-grinder, cost £5, price £3; photos on application. WRIGHT, Chemist, Hebden Bridge.

BOOKS AND PERIODICALS.

"Minor"; how to pass easily & cheaply I well I stamp. LAWS, Chemist, Streatham.

What offers, to clear C. & D., 1887, 1888, 1889, clean; three following years, few missing. HALL, 130 High Road, Kilburn.

Prantl's "Botany"; "Photographic Encyclopedia"; Abney's "Photography"; "Photographic Chemistry"; Royle's and Wills's "Materia"; Thorpe's "Chemistry"; "London Dispensatory"; cash offers. TREW, 29 Elton Road, Bishopston, Bristol.

DRUGS AND CHEMICALS.

Over-stock.—Pure drugs; salicine, ½ lb. 4s. 9d.; p. guaiaci, 2s. 6d. pound. 56/12, Office of the C. & D.

FORMULÆ.

Book of 130 well-tried recipes for chemists; general, remedial, veterinary, toilet; post free, 1s. 6d. TULLY, Chemist, Hastings.

Quinine pessaries, recipe for making. 10 stamps. THE "ACME" MANUFACTURING CO., 290 Dumbarton Road, Partick, Glasgow.

OPTICAL AND PHOTOGRAPHIC.

Thirty excellent x-ray lantern-slides, 6d each; list stamp. PICKERING, Chemist, Leicester.

Microscope, by best English maker, cost £8; will take £3. H. G., 3 Kensington Square, W.

Magic Lanterns, second-hand; Wrenob's telescope triple and binocular; Ladd's oxyhydrogen microscope; grand binocular patent pamphengos oil-lantern, gives 14-ft. picture; slides and effects; bargains. HUGHES, Brewster House, 82 Mortimer Road, Kingsland, N.

SHOP FITTINGS

For Sale, show-case plate-glass (as Maw's catalogue, fig. 14); Treble's make. LEMMON, Hythe, Kent.

Seventy syphons, pear and cylindrical, in boxes; syphons and boxes 6d. each. PICKERING, Chemist, Leicester.

Four show-jars, with mahogany stands; height 30 inches; British arms; cheap. Particulars, DAVIES, Chemist, Forest Hill.

Lamp, handsome globe, latest design, alternate ruby and blue glass, perfectly new, for sale; a bargain. OXLEY, 206 Southwark Bridge Road.

Set mahogany drawers, with cupboards below, 5 ft. 5 in. by 4 ft. by 1 ft. 3 in.; O'Brien's till; No. 9 drng-mill; all perfect. JACKSON, Abbeydale Road, Sheffield.

Automatic revolving-machine; shows 24 different advertisements; splendid window-attraction; 40s. GILMOUR, Chemist, Longsight, Manchester.

For Sale, through disposal of lease, chemist's high-class modern fittings; counters, cases, carboys, bottles, lamp, &c.; low price. HALL, 130 High Road, Kilburn.

PROPRIETARY ARTICLES.

Quantity various sizes Dobson's black-leg drinks; what offers? 54 39, Office of the C. & D.

Eighteen 2s. Cyonine veterinary oil; 3 ditto ointment; 3 6s. Carbolic salts; 1 oz. sulphate of atropia; what offers? CORCORAN, 19 Aungier Street, Dublin.

Half-price.—1 each 4s. 6d. ROOKE'S, Crosby's, Congreve's, Browne's chlorodyne, Clarke's pills; 1 3s. 6d. Harlene, Roche's Cologne, Elmrod's, Rowland's macassar; 1 2s. 9d. Guy's, Congreve's; 6 10d. vinolia soap; dozen Mona bouquet; 4 2s. 6d. Lubin's; 2 each cherry-blossom, white rose; good condition; cash only. "URGENT," 1 Hanover Street, Liverpool.

SHARES.

One Camwal share; what offer? 56/10, Office of the C. & D.

What offers? 40 Kaputine shares, 10s. paid; best offer accepted. 48/29, Office of the C. & D.

MISCELLANEOUS.

Arm-sling, Maw's 213, alpaca-covered; unused. BROWN, Chemist, Dover.

Maw's air-mattress, 72 by 36; good condition; price £3. KEMP, Chemist, Chester.

Water-bed, reeded, 72 by 36 inches, in perfect condition, but soiled: £3. or offers. HOWDEN, Chemist, Tufnell Park, N.

Two Maw's rubber male urinals for 9s. 6d.; 5 1s., 20 6d. Holden's butter-powder, 7s. 6d.; *Pharmaceutical Journal* and *Chemist and Druggist*, unbound, 2d. per lb. GRIFFITH, Leamington.

Recipe for making pessaries, 13 stamps; 6 1-doz. boxes of soluble quinine pessaries, 3s.; polished-steel oval mould for making above, holds 6, 7s.; carriage paid. LAKEMAN, Chemist, Leytonstone.

WANTED

Skeleton, articulated; state price. BEATTIE, Chemist, Ashington.

Three bottles (or less) Churchill's spirone, in good condition. GLAISTER & KEMP, Brighton.

Outside dental showcase, with specimens. JONES, Dentist, Penrhyn, Bryngwran, Anglesey.

"The Chemist and Druggist," complete and clean, for April 25, 1896. S. B., Office of the C. & D.

Southall's materia medica cabinet; approval; deposit. A., 378 Coldharbour Lane, Brixton, S.W.

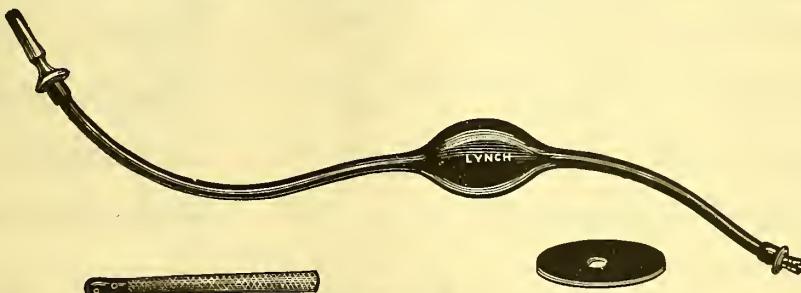
Questions, Bell Scholarship, 1895, &c.; state price. W. W., 36 Heaton Moor Road, Heaton Chapel.

Two 6 or 8-gallon window-carboys; shop-jars; 5-grain pill machine; pessary and suppository-moulds; Beasley's "Pocket Formulary and Druggist's Receipt-Book." State particulars and prices to Mr. ENNIS-SELL, Rugby Lodge, Rushton Crescent, Bournemouth.

250 recess-labelled bottles, York glass, second-hand, 20 or 40-oz., preferably 40 oz.; also 25 pill and ointment jars, 1 set of mahogany drawers, about 15 ft., with glass lab ls. State lowest price to COCKBURN & CO., 57 East Howard Street, Glasgow.

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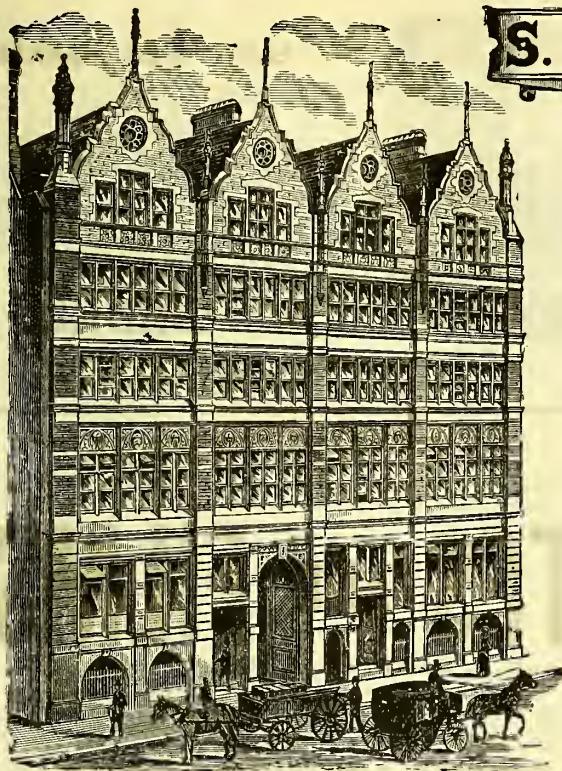
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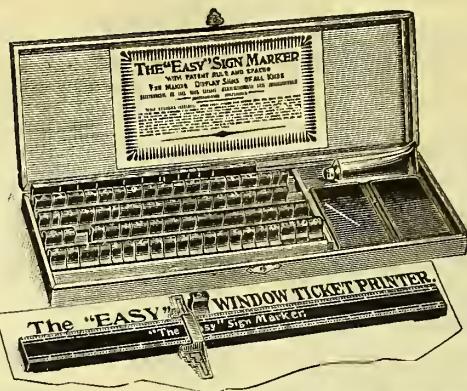
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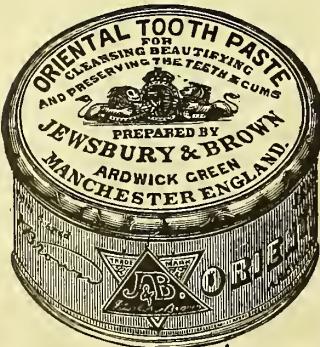
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“Speedy, Sure, and Gentle.”—*British Medical Journal*, August 23, 1890.

“Speedy, Sure, and Gentle” (“*cito, tuto et jucunde.*”)—*Practitioner*, May, 1896.

High Court of Justice, Chancery Division, March 4, 1897.

Saxlehner v. The Apollinaris Company, Limited.

Perpetual injunction granted to restrain the defendants, their officers, servants, and agents from selling or offering, or exposing or advertising for sale in the United Kingdom any Hungarian Bitter Water not being Hunyadi János Water derived from the plaintiff's spring near Budapest, in the Kingdom of Hungary, under or with or by means of any name or description of which the name “Hunyadi” forms part, without clearly distinguishing the same from the water derived from the said spring.

Order for delivery up or destruction of all labels and other documents, and also capsules, in the possession or power of the defendants or under their control which exhibit the name “Hunyadi” in connection with Hungarian Bitter Water without clearly distinguishing the same from water derived from the said spring.

Order for an account of profits made by the defendants since the 26th March, 1896, by means of the sale in the United Kingdom of Hungarian Bitter Water under a name or description of which the name “Hunyadi” forms part without clearly distinguishing same from water derived from plaintiff's spring.

Order made for payment of the costs of action occasioned by improper use of the word “Hunyadi.”

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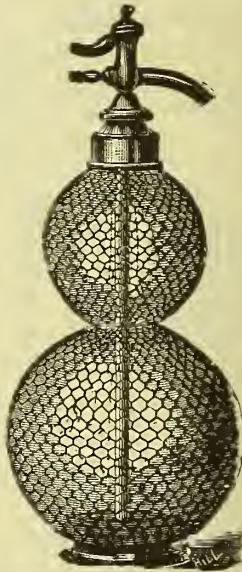
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at a minimum of cost,
from

£20.

NO DANGER.
NO MESS.
SODA-WATER MACHINERY
AND BOTTLES, SYPHONS,
AND ALL APPLIANCES FOR THE TRADE.



Hungarian Aperient Water.



Per 50 Bottles (ordinary size), **17/6**
 ,, 25 „ (large size) - **12/6**

Free on Rail London. Terms Cash.

ACTIVE. TASTELESS. NEVER GRIPES.

HERTZ & COLLINGWOOD, 38 Leadenhall Street, London.

Secure this Agency! Look at the terms!

HOLLOWAY'S

Sale or Return.

33 $\frac{1}{3}$ % discount.

COCA WINE

Guaranteed made from the Leaf.

Carriage Paid.

Cases Free.

THE BEST. Write for Particulars,

E. A. HOLLOWAY, A.P.S., TORQUAY.

N.B.—We guarantee to create demand at once.

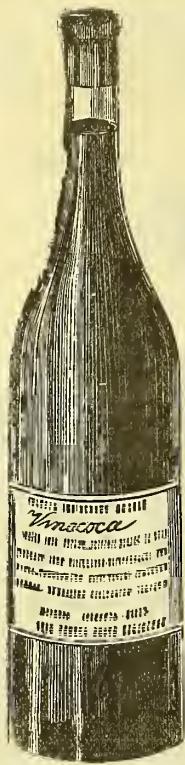
Re
 COLEMAN'S Wincarnis
 COLEMAN'S Crown Imperial Invalid
 Champagne
 COLEMAN'S Coca Wine
 COLEMAN'S Wincardis with Quinine
 COLEMAN'S Coca Wine with Quinine

The above Medicated Wines, with the exception of Wincarnis with Quinine and Coca Wine with Quinine, cannot be sold without a Foreign Wine Licence.

Under certain conditions Messrs. COLEMAN & CO., Limited, are prepared to Pay for a Foreign Wine Licence.

FOR PARTICULARS APPLY TO

MESSRS. COLEMAN & CO., LTD.
 Wincarnis Works, NORWICH.



VINACOCA.

Sold in Bottles at 8s. 6d. each, or 40s. per dozen. Retail
ALSO

COCA LIQUEUR

The best Restorative,
The best Nerve Tonic,
The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR,
COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA,
COCA CHOCOLATE, COCA TOBACCO, &c.



SOLE PROPRIETORS OF

THE NEW VAPORISER, "OUR OWN."

ENGLISH MADE.

Prices from 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, LONDON, W.
REGENT STREET

IMITATED BUT NOT EQUALLED!!



No other Extract makes Beer like it !!

INVENTORS AND MANUFACTURERS—

NEWBALL

& MASON, NOTTINGHAM.

Hunyadi János

The revised prices of the above (to the Trade) have been fixed by Mr. Andreas Saxlehner, the Proprietor, as under:—

22/6 per case of 25 large bottles, or **12/-** per dozen.
35/- " of 50 half-bottles, or **10/-** "

SPECIAL TERMS FOR QUANTITIES ON APPLICATION.
 CARRIAGE PAID. TERMS.—STRICTLY NET.

INGRAM & ROYLE, LTD.

VICHY Sole Agents for **VICHY**
 52 FARRINGDON ST.
 LONDON, E.C.

LIVERPOOL—19 South John Street. BRISTOL—80 Redcliff Street.

Carriage Paid. Price List of all Natural Mineral Waters on Application.

IMPROVED SELTZOGENE CHARGES,
 "Mineral" Brand.

These charges possess the following advantages:—

1.—The complete charge being enclosed in ONE wrapper, it is impossible to make any mistake.
 2.—Owing to the superior form of wrapping employed, the charges are not subject to deterioration by changes of climate.
 3.—In consequence of the special method of preparation, it is impossible for a charge to produce more than the correct quantity of gas, and thus the safety of the seltzogene is assured.
 4.—The acid being in the form of solid blocks, instead of small crystals, ensures the more gradual evolution of the gas, and better aeration of the water without unnecessary pressure.
 5.—The definite size and number of the blocks show at once that the correct charge is present.

6.—The organic compounds hitherto employed promote the growth of germs, fungi, &c., which often give a distinctly unpleasant flavour to the aerated water; the improved charges, on the other hand, are of British make, and of purely mineral origin, and therefore afford no facilities for the growth of such organisms; as a consequence the aerated water retains its purity and brisk flavour, no matter how long it has been made.

The aerated water produced by these charges is excellent in flavour and full of gas, and comparable in every respect to a mineral water of the highest class.

THE SELTZOGENE PATENT CHARGES CO.,
 ST. HELENS, LANCASHIRE.

HOLY-ROOD
 TABLE WATER.



Shown by analysis to be equal to the best imported,
 and is **FAR MORE ECONOMICAL.**

Highly Commended by LEADING MEDICAL AUTHORITIES

"It is a well aerated and pleasant Table Water, without a trace of bitterness."—*British Medical Journal.*

J. F. MACFARLAN & CO.
Abbeyhill Chemical Works,
EDINBURGH.

FOR INFANTS AND INVALIDS.

KYDDE'S FOOD
 IS UNEQUALLED.

KYDDE & CO.
 10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

CHOICE FLOWER SEEDS

IN ILLUSTRATED PACKETS,
 With full Cultural Directions,
 In One and Two Gross Boxes.

CATALOGUES AND PRICES FREE.

SAMUEL McCausland
 Wholesale Seed Merchant, **BELFAST.**

POINTS ABOUT

COCA-KOLA

WINE

With QUININE.

1. It is not liable to excise duty.
2. It is palatable to the taste.
3. It is effectively labelled.
4. It is a certain and powerful tonic.



5. It is extraordinary value.
6. It is without a rival.
7. It is selling wherever introduced.
8. It is not cut in price.

COCA-KOLA WINE is a combination of the powerful stimulating properties of Coca Leaves and Kola Nuts, with the tonic properties of Quinine.

IT IMPARTS TONE AND VIGOUR TO THE WHOLE BODY.

Put up in really first-class style. Bound to attract attention, command sale, and create trade.

In Apollinaris Pints, 8/- per Dozen.

POTTER & CLARKE, WHOLESALE DRUGGISTS,
60, 62, and 64 Artillery Lane, LONDON.

THE BRITISH MEDICAL JOURNAL says:—
“Vi-Cocoa is a very palatable beverage of great stimulating and sustaining properties.”

THE LANCET says:—“Vi-Cocoa must be assigned a place in the front rank of really valuable foods, since it is the embodiment of the numerous principles contained in Malt, Hops, Kola, and Cocoa of distinct value as a restorative and stimulative food.”



SEND FOR SPECIAL LOCAL ADVERTISING OFFER!

Available only until April 5th, 1897.

The Public say :

“There is Merit in it,”

***And
the Trade say :***

**“There is Money,
Plenty of Money, in it.”**



**AVAILABLE UNTIL
APRIL 5th, 1897.**

***Special
Local
Advertising
Offer.***



Send your order to

Dr. Tibbles' Vi-Cocoa, Ltd.,

SUFFOLK HOUSE, CANNON STREET,
LONDON, E.C.,

and obtain your fair share of the profits that are
daily being made by our customers everywhere.

PEPSALIA.

All Proprietary Rights in the manufacture and sale of this valuable speciality have this day been acquired from Messrs. G. & G. STERN, LIMITED, 62 Gray's Inn Road, London, W.C., by

CEREBOS LIMITED

Who will in future manufacture it at their works in Newcastle-on-Tyne, under the superintendence of their own Chemists.

All orders after this date will be executed by

CEREBOS LIMITED

Picton Works, NEWCASTLE-ON-TYNE.
LONDON : 3 Maiden Lane, E.C.

March 11th, 1897.

“LIVE, and LET LIVE.”

THE FRAME FOOD CO., LTD., desire that all retailers should have a reasonable, living profit on the sale of “Frame Food” Preparations. To ensure this they have fixed minimum retail prices, below which they will not permit their goods to be sold. They also give no graduated discounts on large orders, but allow their highest discount on purchases of £2 value and upwards, thus placing all retailers upon the same terms.

Goods sent carriage forward. No Packages charged or to return.

These terms ensure an average Profit of over 30 per cent. on goods sold at advertised prices, and of 20 per cent. at minimum prices.

Write for Trade Terms and Anti-cutting Agreement.

Satisfactory references or cash required for new customers.

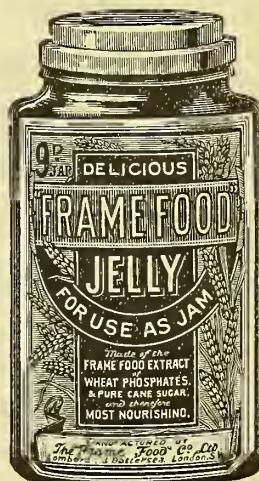
An Attractive FRAMED SHOWCARD, and Leaflets with Retailer's printed Address (in red ink), sent Carriage Free on application—(MENTION THIS PAPER). The Frame Food Co. trust that retailers will show their appreciation of the Company's efforts to ensure them a reasonable profit on the sale of “Frame Food” Preparations, by exhibiting the Showcards and distributing the Leaflets.



FRAME FOOD CO., LTD., LOMBARD RD., BATTERSEA, LONDON, S.W.

New & Improved Package.

LARGER PROFIT TO RETAILERS.



THE FRAME FOOD CO. have adopted a new air-tight covered Jar for “Frame Food” Jelly, which will ensure its keeping any length of time. In fixing the Retail and Trade Prices of the new package, they have taken the opportunity of securing a larger margin of Profit to Retailers, who will find it to their advantage to recommend the Jelly to their customers.

The 1s. and 7d. sizes are now withdrawn.

“Frame Food” Jelly possesses the nutritive and digestible properties of Malt Extract, and is much cheaper and more palatable.

Advertised Retail Price, 9d. ;
Minimum Retail Price, 8½d.

TRADE TERMS ON APPLICATION.

THE MOST ECONOMIC, CONVENIENT, & PORTABLE FORM OF SOUP.

LAZENBY'S SOUP SQUARES

(MULLIGATAWNY, GRAVY, JULIENNE, ETC.)

FOR MAKING FRESH SOUP, OR IMPROVING HOME MADE STOCK.
EACH SQUARE WILL PRODUCE



OF STRONG NUTRITIOUS SOUP

Prepared by E. LAZENBY & SON. LTD. 18, Trinity St., LONDON, S.E.

SHEEP DIPS. For "Information Wanted,"

WRITE TO B. B. HARESCEUGH & CO., Wellington St., LEEDS,

Who supply Chemists with any of the following preparations packed in their own name:—

Arsenical Powder Dip; Arsenical Paste Dip; Non-Poisonous Paste Dip and Fluid Dip; Horse and Cattle Washes; Paste and Fluid; Maggott Lotion; Mange Liniment; Dog Soap; Carbolic Powder; Carbolic Acid; Carbolic Soft Soap.

DISINFECTANTS, BOTH POWDERS AND FLUIDS, IN BULK. PRICES ON APPLICATION. ESTABLISHED 1860.

MAKE YOUR OWN MINERAL WATERS.

See Pages 442 and 443, *Chemist and Druggist Diary, 1897.*

A great many Chemists, Hospitals, &c., are using this simple and most effective Plant, and producing splendid Aerated Waters.

SUPPLIED ONLY BY

THE VOLCANIC AERATION CO., 203 Great College Street, LONDON, N.W.
J. G. CHAPMAN, Proprietor.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS

PRIZE MEDAL,
International
Health Exhibition,
1884.

IN
RUBY, BLUE, AMBER, AND
OPAL GLASS.

AWARD OF MERIT,
International
Sanitary Exhibition,
1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8 x 6 Ruby Tablets, £3 15s. Od.

J. R. CORSAN, THE LONDON
SAND-BLAST WORKS, 58 GRAY'S INN ROAD, W.C.
TO PREVENT FRAUD DEMAND BUSINESS CARD FROM TRAVELLERS.

SPECIAL NEW LINE IN GIBSON'S CELEBRATED SWEETS.

ONE POUND, HALF-POUND, AND
ENAMELLED TINS,

QUARTER-POUND BEAUTIFULLY
WITH PATENT LIDS.

Bouquet Tablets.

Cream Toffee.

Lemon Drops.

Barley Sugar.

Malt Tablets.

Pear Drops.

Mint Rock.

Lime Fruit.

Pine Apple.

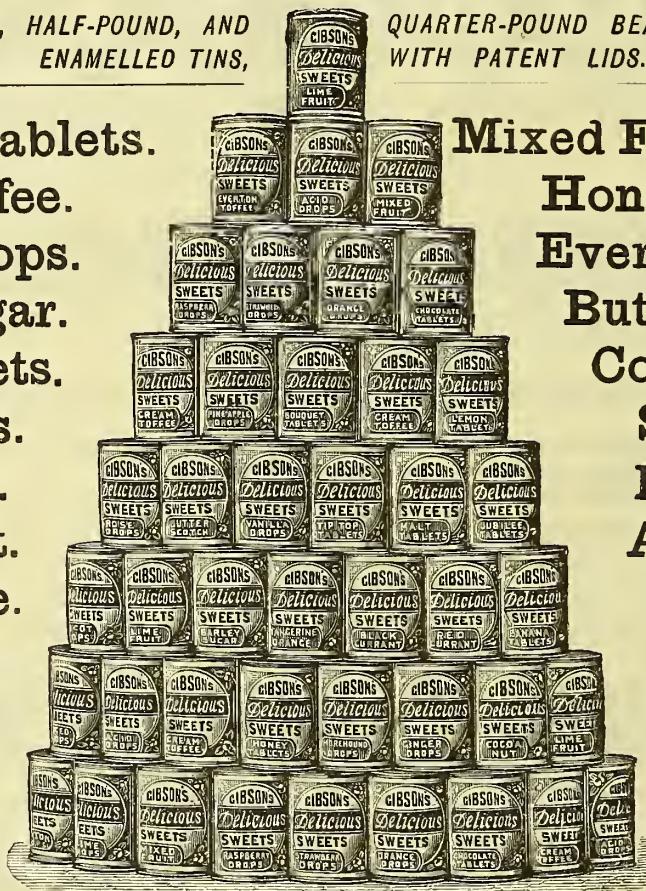
Raspberry.

Damson.

Ginger.

Musk.

&c., &c.



For many years these goods have been shipped abroad only in bottles; now the firm have decided to pack them in 1-lb., $\frac{1}{2}$ -lb., and $\frac{1}{4}$ -lb. tins at 7/6, 4/6, and 2/9 per dozen respectively to the Retail trade, with usual discount, special terms being made with Wholesale buyers. Messrs GIBSON & SONS believe by offering their **WORLD-RENNED BOILED SUGARS** in portable, unbreakable packages, beautifully labelled for Counter show, they will not only enormously increase their own business, but supply a long-felt want to buyers abroad, and remove at once the only obstacle standing in the way of everybody being able to stock these goods without the slightest fear of sustaining any personal loss.

Indents may be filled and sent direct to the Works, MANCHESTER, to the Firm's
LONDON WAREHOUSE—

1 GLASSHOUSE YARD, ALDERSGATE STREET,
Or to any LONDON SHIPPERS.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.	Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3	1d. Bottles, flat or round, reputed half-pints ..	16/-
1d. " " 1-gross boxes ..	5/9	6/9	1d. " " ..	28/-
1d. Giant " dozen parcels ..	6/-	8/6	1d. Pint Imperial, round stoppered bottles ..	52/-
1d. " " 1-gross boxes ..	6/6	9/-	12½-Gallon Casks (casks free) ..	each 20/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.
CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.
Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST, 1185 & 1187 CHESTER ROAD, STRETFOUR, MANCHESTER.

SHADEINE.

For Colouring the Hair. Sold in 6 tints, one liquid

6d. Sample size ..	4/- per doz.
3/6 Large " ..	28/- "
10/6 Extra " ..	84/- "



[COPYRIGHT]

SAMPLES Supplied to the Trade on pretty hanging Showcards at 4/- per doz.

This Popular Article is Largely Advertised, and kept at all Wholesale Houses.

Agents Wanted.

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON.

GUEST & CO. CITY WORKS, CARRUTHERS STREET, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescent Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

Profitable Extras for Chemists.

TOBACCO, CIGARS, CIGARETTES.

AND TOBACCONISTS' FANCY GOODS.

All Packet Tobaccos, Cigarettes, and other Tobacconists' Proprietary goods supplied at Manufacturers' own List Prices. Every Smoker's Requisite and all Novelties—Up to Date—in one order.

MINIMUM OF TROUBLE—MAXIMUM OF PROFIT.

SEND FOR ILLUSTRATED PRICE LIST (200 PAGES), POST FREE.

SINGLETON & COLE, BIRMINGHAM.

Do you require Petroleum Jelly?

If so, SNOWDON'S PETROLEUM JELLY, White or Yellow, is the best and purest obtainable. It fulfils all the requirements of the B.P., is pronounced by the Medical Profession to be unsurpassed, and DR. S. RIDEAL, D.Sc. Lond., F.I.C., F.C.S., states that the various kinds are of "uniform good quality."

Have you seen our New Speciality in Petroleum Jelly?

The "SNOWDRIFT" (Regd.) BRAND is of a tough or stringy consistency, and is highly commended by *The Hospital*, which says of it "That its tough or stringy nature is a great improvement. We learn that already the demand for the "Snowdrift" Brand is very great. It is cheaper than ordinary vaseline, and we confidently recommend it to the Medical Profession." Samples and Prices will be sent on application.

Send for a Sample of "Snowdrift."

Address SNOWDON, SONS & Co., Millwall, London, E.
Telegraphic Address: "SNOWDRIFT, LONDON."
Telephone: 5127.

SALVO PETROLIA

A SUPERIOR VASELINE.

May be procured through all Chemists and Druggists, and is
Manufactured solely by the Proprietors,

THE DEE OIL COMPANY,
LIMITED,

Works: SALTNEY, CHESTER.

SALVO PETROLIA

Sanctioned by the Board of Trade Marine Department, and included in their instructions issued May, 1894, to superintendents of Mercantile Marine Offices.
Manufactured in five distinct qualities—WHITE, LEMON, YELLOW, GOLDEN, and RED (Veterinary).
Packed in tins 1, 2, 4, 5, 7, 10, 14, and 28 lbs., 66 and 112 lb. Drums, and 3 cwt. Barrels.

OLEUM DEELINÆ

(REGISTERED).

GENERALLY ADOPTED BY THE MEDICAL PROFESSION FOR
Ophthalmia, Scurvy, Ringworm, Eczema,
and all Skin Diseases.

Packed in Cases—One dozen 1s. Bottles; One dozen 2s. Bottles. Pint Bottles 4s. 6d. each, for Hospitals and Dispensing Chemists. Testimonials may be had upon application.

Petroleum Emulsion

with Hypophosphites.

Of the colour and consistency of Cream. Unsweetened and very palatable. Prepared with a specially purified Petroleum Jelly.

Price 1/3 per lb.

C. R. HARKER, STAGG & MORGAN,
Manufacturers of Pharmaceutical Preparations,
15 Laurence Pountney Lane, LONDON, E.C.

Full Retail
Price
6d. a tablet.

Full Retail
Price
6d. a tablet.

BLONDEAU'S
HELIOTROPE SOAP
VIOLET SOAP
OPOPOONAX SOAP
VINOLIA BABY SOAP

12/-
 per dozen
 boxes
 of
3 tablets

(Less Usual Discounts).

Packed in beautiful cardboard boxes, each
 containing 3 tablets.

6d.

6d.

Our Challenge

We venture to affirm that never have two lines been put on the market which could surpass for quality, weight, and price combined the

Blondeau Cold Cream Soap, and the
Blondeau Cucumber and Glycerine Soap.

Selling to the
 Trade at
2/10½ net
per Dozen
Tablets
 for £1 order.

BLONDEAU ET CIE., MALDEN CRESCENT, LONDON, N.W.

DO YOU HANDLE DYES TO ANY EXTENT?

IF NOT, WHY NOT?

The demand is considerable and the profit nearly 100 per cent.

WE have for nearly five-and-twenty years made Aniline Dyes a special study, and think we are within the mark in stating that we do this branch of our business as well as it can possibly be done.

As Easter is approaching, when Dyes are in greater demand than any other period of the year, we strongly suggest that any Chemist in the Kingdom who has not yet handled them might do worse than order from us a sample card (1 gross) of our 1d. Dyes, and also a card (3 dozen) of our 2d. Perfect Black Dye. The former contains 12 everyday-going colours, and the latter is possibly the best Black Dye in the Kingdom, and sells at sight.

Chemists not having an account with us will simplify matters by enclosing a Postal Order for 11/-, when we will forward the Dyes Post Free.

In the case of our friends who prefer packing their own Dyes we subjoin a list of these in bulk.

These Dyes, each and all, have been separately tested, and are guaranteed to bring about the desired results with the least possible trouble, and can be confidently recommended.

	Per lb.		Per lb.		Per lb.
Black	6/-	Crushed Strawberry	8/-	Pink	6/-
Brown	4/-	Cerise	4/6	Plum	6/6
," Bismarck	2/6	Crimson	5/-	Ponceau	4/6
," Light	4/-	Golden Yellow	6/-	Puce	6/6
," Dark	6/-	Green	5/-	Purple	7/6
," Golden	6/-	," Olive	6/-	Red	6/-
Blue	6/-	Grey	7/6	Rose	6.6
," Light	7/6	Lavender	9/-	Ruby	6/-
," Dark	6/-	Magenta	7/6	Salmon	7/6
," Navy	6/-	do. No. 2	6/-	Scarlet	3/9
," Electric	12/-	Mauve	6/-	Slate	8/-
Canary	6	Marone	3/3	Sultana Red	7/-
Cardinal	4	," Opt.	6/-	Terra Cotta	7/-
Claret	6/-	Orange	5/-	Violet	6/-
Cream	8/-	Peach	7/6	Yellow	6/-

Packed in $\frac{1}{4}$ -lb., $\frac{1}{2}$ -lb., and 1-lb. Tin Canisters. A Rebate of 6d. per lb. by taking them in 1-lb. Tins.

A TRIAL ORDER ONLY REQUESTED—REPEATS MUST FOLLOW.



**AYRTON & SAUNDERS,
LIVERPOOL.**

CORBYN'S

QUADRUPLE and TRIPLE



NATURAL

EXTRACTS.

PERFUMES.

Toilet Waters. Sachet Powder.

CORBYN, STACEY & CO.

Pharmaceutical Laboratory | 300 HIGH HOLBORN.
and Drug Warehouses | 61 and 62 EAGLE STREET.
Perfume Laboratory and Warehouse | 7 FISHER STREET.
Analytical Laboratory | 8 FISHER STREET.

All Letters should be addressed to the HEAD OFFICE—

22 GREAT ST. HELEN'S, LONDON, E.C.

Telegraphic Address:
"COLOCYNTH LONDON."

TELEPHONE No.
4033.

GUARANTEED TO CONTAIN ARSENIC.

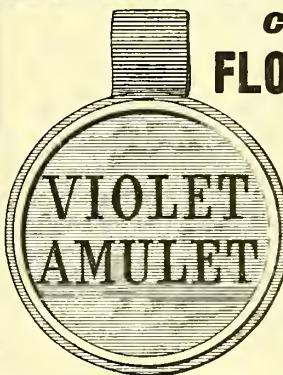


I USE
DR. MACKENZIE'S
ARSENICAL
SOAP.

BEWARE OF THE MANY IMITATIONS

REGD.

**CARMICHAEL'S
FLORAL AMULETS**



Those who **KNOW** the business
END of a **TIN TACK**! are
those who know an imitation
AMULET from the real one; one
is made w th Vaseline (the wearers
know to their sorrow that it melts
away), the **OTHER** is lasting. Be
sure they are **CARMICHAEL'S**.
Also get an indemnity from the
maker to protect you against my
lawful attacks. Due notice will be
given of each lawsuit as it is
settled.

To be had of all Wholesale & Export Houses in London.

BRECKNELL'S PRIZE MEDAL.

Recommended by **SKIN** *Unscented,
yet
Sweet as a Rose.*
Eminent Medical Men.

SOAP.

Although low in price, it ranks with high-class
soaps, and is altogether the best extant for
producing a Clear and Healthy Skin.

The longer it is kept the more it improves and increases in value
LIBERAL TERMS TO THE TRADE.

BRECKNELL, TURNER & SONS, LIMITED,

To Her Majesty, &c., &c.

31 HAYMARKET, LONDON.

ESTABLISHED 1852.

SPRING GOODS.

Below will be seen a rough photograph of our tins of Health Salt, showing the style of tins and bottles, and also in some degree the kind of label used. Our travellers carry full specimens of these, which they will be glad to show, or we will post direct upon receipt of post card. The tins used are the ordinary ones, but to those who prefer them we will supply the "lever" lids at extra. For Export we certainly recommend the "lever" lid, as we keep better. Every Chemist who orders may have

Two Shillings per gross
tainly recommend the
find the contents
Every Chemist
one gross
his name



and address printed upon each tin; this entails no extra charge. We consider our range of labels capital, and are quite prepared to leave the judgment of the quality of the Salts in the hands of the trade and the public. We have every indication of a heavy business in these goods this Spring, and all Chemists who want to have a lively Spring are earnestly invited to order early.

Round Tins ...	30/-	per gross net.
Square Tins ...	32/-	
Bottles (6-oz.)	45/-	

Blyton, Astley & Co.,
Eagle Laboratories,
Manchester.

Telegrams—"TROCHES MANCHESTER."

Telephone Number, 1852.

Telegraphic Address—CHEMUS LONDON.

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CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACIDS

Bonlton, J., & Co., Lim.

ADVERTISING SPECIALTIES

Corsan, J. R. | Harris, J. Lindner, M.

AERATED & MINERALS

Apollinaris Co.

Barnett & Foster

Bratty & Hinchliffe, Lim.

Burrow, W. & J. (Malvern)

Chemists' Aerated Waters Association, Lim.

Ellis & Son (Ruthin)

Hertz & Collingwood

Hungyadi Janos

Idris & Co., Ltd.

Ingram & Royle, Lim.

Kinmonth & Co.

Macfarland, J. F., & Co.

Mills & Co. (Bourne)

Roshenbach Spring, Lim.

Ross, W. A., & Sons, Lim.

Sallyco Water Co.

Seltzogene Patent Charges Co.

DITTO PLANT

(See SYRUPS and ESSENCES)

Barnett & Foster

Bratty & Hinchliffe, Lim.

Tyler, Hayward, & Co.

Volcanic Aeration Co.

AGENCIES ABROAD

Anstruther Drug Co.

Dee Gil Co.

Boissy

Kempthorne, Prosser & Co.

Lenion, G. B., & Co. (N.Z.)

Peake, Allen & Co.

Taylor & Colledge

ALKALOIDS

Howards & Sons (Cinchona)

Macfarland, J. F., & Co.

Smith, T. & H., & Co.

AMMONIA

May & Baker, Lim.

White, A., & Sons

Woolley, Sons & Co.

ANALYSIS

Sutton, F., & Co.

APPARATUS

Bennett, Sons & Shears

Berend, O., & Co.

Woolley, J., Sons & Co.

ASTHMA CURE

Potter & Clarke

BAKING POWDER

Goodall, Backhouse & Co.

BATH & FLESH GLOVES

Maw, S., Son & Thompson

Solport Bros.

Wood, Vincent

BATH SALTS

Tidman & Son, Lim. (Sea Salt)

BEESWAX

Bowdlear Co.

Evans, Sons & Co.

Kemp & Son

Leonard, T.

Lineburger Wachsbleiche

BICARB. SODA

Brunner, Mond & Co., Lim.

Howards & Sons

May & Baker, Lim.

Rothschild, Lim.

Sallyco Water Co.

Seltzogene Patent Charges Co.

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Tyler, Hayward, & Co.

Volcanic Aeration Co.

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Anstruther Drug Co.

Dee Gil Co.

Boissy

Kempth

COD-LIVER OIL

Allen & Hanburys
Burroughs, Wellcome & Co.
Cuthbert, R.
Davies, Gibbins & Co.
Evans, Lesscher & Webb
Evans, Sons & Co.
Harker, Stagg & Morgan
Hill A. S., & Son
Kemp & Son
Lofthouse & Saltmer
Lorimer & Co.
Moller, P. Moes, J., & Co.
Morrison, R., & Co.
Oppenheimer, Son & Co., Lim.
Smith, T. H., & Co.
Spratt's Patent (Dog Cakes)
Scott's Emulsion
Southall, Bros. & Barclay
Stevenson, H. E., & Co.
Wright, Layman & Umney

COMP. MEDICINS

Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

CONCENT. LIQRS

Baiss Bros., & Co.
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co.

CONFETIONERY

Blyton, Astley & Co.
Gibson & Sons
Guest, T., & Co. | Hillaby, J.

CORKS

Ringrose & Cobb | Brooks, T.
CORN CURES

Beetham & Son
Gardner, C. | Potter & Clarke

COTTON WOOL

Robinson & Sons (Absorbent)

CRSHD LINSEED

Evans, Gadd & Co.
Mumford, G. S.

CYDER

Symons, J., & Co., Lim.
DENTIFRICES, &c.

Beecham, T.
Bromley, H., & Co.

Hovenden & Sons
Jewett, R. & Brown

Stevens, P. A.

Sutton, R. & Co. | Wilson, A.

Woods, W. (Areca Nut)

Wright, Chas., & Co., Lim.

DENTISTRY

Browning, A. J.
Fentiman, A. G.

Fentiman & Co.

"DIMATOS"

Southall Bros. & Barclay

DISINFECTANTS

Beedzler & Co. | Brooks, T.
Calvert, F. C., & Co.
Dussek Bros.
Fletcher Bros. & Co.
Government Sanitary Co.

Granville, A., & Co.

Hebden, W. C.

Izal

Joyes' Sanitary Compounds Co.

Kahn, B. (Chinclosk Kreschonek)

Mackey, Mackey & Co.

May & Baker, Lim.

National Chemical Co.

Ness & Co.

"Nestor" Sanitary Fluid Co.

Read, Holiday & Co.

Sanitas Co., Lim.

Steel, J. C., & Co.

Tuson's Disinfectants Co., Ltd.

Tyler, T., & Co.

DOG MEDICINES

Lloyd, T. Howard

Spratt's Patent, Lim.

DRUGGISTS SUN.

Ayrton & Saunders

Barclay & Sons, Lim.

Blawie, J. & Co., Lim.

Dalley & Wilkinson

Cartwright, A. S.

Evans, Lesscher & Webb

Evans, Sons & Co. (Savars)

Fordham, W. B., & Sons, Lim.

Hovenden & Sons

Kahler, G., & Co.

Kay Bros., Lim.

Marshalls, Lim.

Maw, S., & Son & Thompson

McGroarty & Co.

Newbery, F., & Sons

Potter & Sacker

Quelch, H. C.

Sanger & Sons | Schutze & Co.

Southall Bros. & Barclay

Tidman & Son | Toogood, W.

Wool, Vincent

DRUGS

Allen, S., & Sons (Grinders)

Beynon & Co.

Bleasdale & Co., Lim.

Davies, Gibbins & Co.

Dick, G. & Co.

Kahler, G., & Co.

Lofthouse & Saltmer

Melnitzhagen, E.

Oppenheimer, Son & Co.

Phillips & Co. | (Grinders)

Poppelreuter, W.

Stevenson, H. E., & Co.

DYES

Ayrton & Saunders

EAU DE COLOGNE

Farina, J. M.

Muhlenh. F.

Van Oppen & Co.

ECZEMA

Cullwick's Specialities

EMBROCATIONS

Bow's Liniment
Day & Sons
Elliman, Sons & Co.
Harvey & Co.
Tuson's Disinfectants Co., Ltd.

ENEMAS

British American Ball Nozzle
Evans, Sons & Co. [Co.
Lynch & Co., Lim.
Sanger & Son | Wood, Vincent

ENGRAVERS

Corsan, J. R.

ESSENCES

Boulton, J. & Co., Lim.
Bovril, Lim. (Beef)
Bratty & Hincliffe, Lim.
Bush, W. J., & Co.
Dale & Co., Lim.
Fletcher, Fletcher & Co.
Goodall, Burroughs & Co.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell

TODD, A. M.

Tyler, P. (Anchoives)

Woolley, Sons & Co.

ESSENTIAL OILS

Allen, S., & Sons
Blackwell, Hayes & Spilsbury
Boehm, Fredk.
Bush, W. J., & Co.
Delbance & Co.
Evans, Sons & Co.
Feustell, Friedrich
Frankenstein, S. M., & Co.
Jackson, J. & Co.
Jesup, C. & Doumin
Kahler, R. C. | Warrick Bros.
Lewig, Mark, Lim.

LOFTHOUSE & SALTMER

May & Baker, Lim.

Poppelreuter, W.

Ransom, Wm., & Sons

Raynold, Claude, & Co.

Sanitas Co., Lim.

Stevenson, H. E., & Co.

Stevenson & Howell

Todd, A. M.

Treatt, R. C. | Warrick Bros.

Wright, Layman & Umney

ETHER

Brock, F. (Lime)

Howards & Sons

Macfarlan, J. F., & Co.

May & Baker, Lim.

Robbins, J., & Co.

Tyler, T., & Co.

White, A., & Sons

Woolley, Sons & Co.

EUCALYPTUS OIL

Drysdale, J. W., & Co.

Sanitas Co., Lim.

Tasmanian Eucalyptus Oil Co.

EXTRACTS, FLUID

Allen & Hanburys

Allen, G., & Co.

Bleasdale & Co., Lim.

Burgoyne, Burbidges & Co.

Day, Gibbins & Co.

Evans, Sons & Co.

Fletcher, Fletcher & Co.

Hearon, Squire & Francis

Hooper, B., & Co.

Lloyd, T. Howard, & Co.

Moss & Co.

Parke, Davis & Co.

Ransom, W., & Son

Wright, Layman & Umney

FEED BOTTLES

Burroughs, Wellcome & Co.

(Thermo Safe)

Evans, Sons & Co.

Gibson, H., & Sons

Hearn, Wright & Co.

Hovenden & Sons

Kahn, B. (Papain Finkler)

Lynch & Co., Lim.

Marriott, E. & Co.

Maw, S., & Son & Thompson

Strong, Christy

Turnbridge & Wright

FILTERS

Berkfield Filter Co., Lim.

Mawson Filter Co.

Bleasdale, Lim.

Buchan, D. D.

Ford, Shapland & Co.

Marshall, Lim.

Maw, S., & Son & Thompson

Strong, Christy

Turnbridge & Wright

FLY CATCHERS

Bleasdale, Lim.

Fletcher, Fletcher & Co.

Marshall, Lim.

Maw, S., & Son & Thompson

Strong, Christy

Turnbridge & Wright

FOOD (Infants & Invalids)

Allen & Hanburys

Bengier's Food

Brown, J. & Sons

Christy, T., & Co.

Frame Food Co., Lim.

Goodall, Backhouse & Co.

Hawkins, T. (Steriliser)

Horlick & Co.

Kydd & Co.

Lazenby & Son, Lim.

Liquor Carnis Co.

Liebig Co. | Lorimer & Co.

Mellin's Food | Nestle, H.

Savory & Moore

Tyler, P.

W. Coca (Dr. Tibbles)

FUNNELS

Von Ponce Glass Works

GINGER ALE

Braith & Hincliffe, Lim.

Chemists' Aerated & Mineral

Water Association, Lim.

Wright, Layman & Umney

GRANULAR PREP.

Bishop, A., & Sons

Blyton, Astley & Co.

Boulton, J. & Co.

Davies, Gibbins & Co.

Evans, Sons & Co.

Fletcher, Fletcher & Co.

Hawthorn, T. Howard & Co.

Price, G. & Sons

Price's Patent Candle Co.

Ramsey, J. & Sons

Sanitas Co., Lim.

Schutze, F. & Co.

Sharp Bros. Soap & Perfumery

Co., Lim.

Moise & Marshall, Lim.

Mulhens, F.

Newbery, F. & Sons (Berdos)

Pears, A. & F. Lim.

Price's Patent Candle Co.

RENNET

Duncan, Flockhart & Co.
Lorimer & Co.
Müller & Co.
Tomlinson & Hayward

RUBBER GOODS

Powell & Barstow

SALICIN

Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID

Burgoyne, Burbidges & Co.
Zimmermann, A. & M.

SARSAPEARILLA

Potter & Clarke

SAUCES, PICKLES

Goodall, Backhouse & Co.
Maw, S., Son & Thompson

Tyler, F.

SCHOOLS, &c.

Central (Edinburgh)
Glasgow School of Pharmacy
Imperial College
Liverpool School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Royal Dispensary (Edinburgh)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
Westminster College

SCIENTIFIC INSTRUMENTS

Darton Co. | Hicks, J. J.

SEA SALT

Tidman & Son, Lim.

SEEDS

Brook, Parker & Co.
McCausland, S.
Potter & Clarke
Spratt's Patent, Lim. (Bird)

SEIDLITZ PWDRS

Blyton, Astley & Co.
Davies, Gibbins & Co.
Hora & Co. | May, Roberts & Co.

SELTZOGENES

Bratty & Hinchliffe, Lim.
May, Roberts & Co.
Volcanic Aeration Co.

SERUM

Greef, R. W., & Co.

SHAVING

Hovenden & Sons (Euxesis)
Lloyd, A., & Co. (A. S. Lloyd's
Euxesis)

Truefitt, H. P., Lim.

SHEEP DIP

Fletcher Bros & Co.
Harescaugh & Co.
Jeyes' Sanitary Compounds Co.
Kühn, B. (Kresochine)
Ness & Co.
Sanitas Co., Lim.

SHOP FITTERS

Bowling & Gowler
Bygrave, J. & W.
Evans, Sons & Co.
Josephs, C. & Co.
Josephs, Philip
Mills, H.
Treble, G., & Son
Yates, W. S.

SMELLING SALTS

MacKenzie's Cure

SOAP

Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Gibbs, D. & W. (Medicated)
Huggin's Soap Works, Lim
Jameson, W. (Arsenical)
Jeyes' Sanitary Compounds Co.
Mackenzie's Dr. (Arsenical)
Muhiems, F.
Patterson, F., Lim.
Sanitas Co., Lim.
Sharp Bros. Soap, &c., Co., Ltd.
Sinciar, J., & Son
Tidman & Son
Wright, Layman & Umney

SPECTACLES

Bowtright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES

Cohen, I. & M.
Cresswell Bros. & Schmitz
Peterson, M., & Co.

STAMPS (RUBBER)

Hickisson, J.

STARCH

Critchley (Gloss)
Hebden, W. C.

STEEL BARRELS

Iron and Steel Plant Co., Lim.

STOPPERS

Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Patent Stopper, Box, and
Stamping Co., Lim.

STOVES

Clark, S., & Co., Lim.

SUGAR OF MILK

Boehm, Fredk.

SURGICAL

Accrington Surgical Appliances
Alcock's Plasters
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim. | Co.
British-American Ball Nozzle
Burgoyne, Burbidges & Co.
Carrington, J. T.
Eschmann Bros. & Walsh
Ferris & Co.
Haywood, J. H.
Ickringill's Hygienic Cloth
Syndicate, Lim.
Krohne & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Manson, R.
Maw, S., Son & Thompson
Miline, J.
Oppenheimer, Son & Co.
Patterson & Barstow
Quelch, H. C.
Robinson & Sons
Sanitas Co., Lim.
Schutze, F., & Co.
Victoria Rubber Co.
Wood, Vincent.
Woodruff, T.

SYPHONS

Barnett & Foster
Bratty & Hinchliffe, Lim.
British Syphon Mfg. Co.
Chemists' Aerated and Mineral

Waters Association, Lim.

Geraut, E., & Co.

Idris & Co., Lim.

Kilne Bros. | Melin, C.

SYRUPS

Beckett, W., Sons & Co.
Blyton, Astley & Co.
Fletcher, Fletcher & Co.

(Liquors)

Stevenson & Howell

Volcanic Aeration Co.

TABLETS

Allen, A.
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Davies, Gibbins & Co.

TEA

Pearse & Meeking

Tower Tea, Lim.

THERMOMETERS

Ayrton & Saunders

Bailey, W. H., & Son

Darton, F., & Co.

Hicks, J. J.

TOOTHPICKS

Cartwright, A. S.

Marriott, E., & Co.

TOBACCO & CIGRS

Singleton & Cole, Lim.

TINCTURES

Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Sinclair, Phillips & Co.
Sibley, Lim.

TOILET

Ayrton & Saunders
Beetham & Son
Burroughs, Wellcome & Co.
Dent Oil Co., Lim. | Lanoline
Doveridge & Sons
Lynch & Co., Lim.
Maw, S., Son & Thompson
Moise & Marshall, Lim.
Pinnacle Soap Stand Co.
Sanitas Co., Lim. | Co., Lim.
Sharp Bros. Soap & Perfumery
Southall Bros. & Barclay
Squire & Sons

Tidman & Son, Lim.

Townsend, J. (Paper)

Truefitt, H. P., Lim.

TOOTH PASTE

Beecham, T.
Jewsbury & Brown
Luthen & Co.
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS

Browne, T. B.
URETHANE
Howards & Sons
VACCINATION
Maw, S., Son & Thompson
Vaccin Association (Lymph)

VALUERS AND TRANSFR AGNTS

Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Ferguson & Osborne
Orridge & Co.
Tomlinson, Thos., & Son

VASELINE

Chesebrough Co.

VETERINARY

Bird & Storey
Dawes, G. F. | Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co. | Leng, A., & Co.
Lloyd, T. Howard, & Co.

Rookledge, F. E.

Sanitas Co., Ltd | Spratt's (Dogs)

Walker, Troke & Co.

VINEGAR

Grimble & Co.
Blondeau et Cie.
VINOLIA Superfatt'd
Aeme Chemical Co., Lim.
Fletcher Bros. & Co.
Mark Smith, Ltd.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT DRUGGISTS

Allen & Hanbury
Allen, S., & Son | Bass Bros.
Barron, Harvey & Co.
Bleasdale & Co., Lim.
Brook, Parker & Co. (Botanic)
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hill

Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Sons & Webb
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Harrington Bros.

Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lothouse & Saltmer

Macfarlan, J. F., & Co.
Potter & Clark
Raines & Co.
Raines, Clark & Co.
Smith, G., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge

Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney

Wyleys, Lim.
WINEs, SPIRITS, BEER, &c.

Burgoyne, P. B., & Co.
Burroughs, J.
Coleman & Co., Lim.
French Hygienic Socy. (Coca)
Goodall, Backhouse & Co.
Holloway, E. A.
Mead Manufacturing Co. (Vin
Kraff)

Miller, A., & Co. (Orange)
Phillip, G., & Co. (Orange)
Smith, S., & Co. (Orange)
Stevenson, H. E., & Co.
Symons, J., & Co., Lim.

Warren, A., & J.
Whitbread & Co.
Wilcox & Co.

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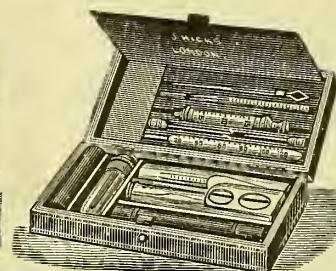
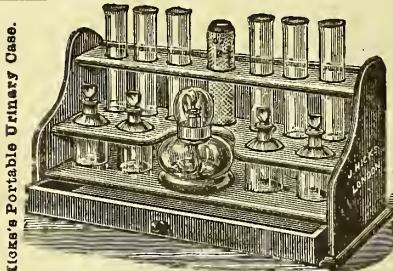


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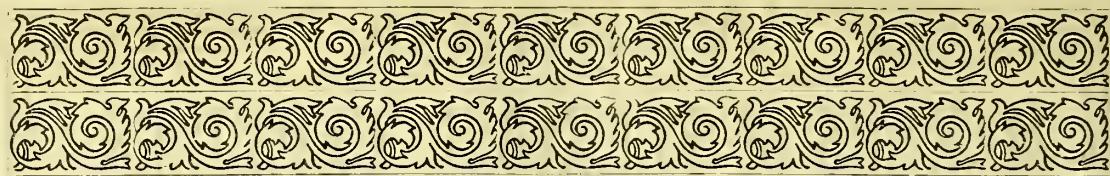
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TAR "TABLOIDS" (B., W. & CO.).

In the *Medical Press and Circular*, November 20, 1892, a distinguished physician gives a further contribution on the "Mode of Administering Tar," and, in conclusion, says:—"I have recently had my attention called to 'Tabloids' of Tar, containing 1 grain in each, and these, I think, constitute *by far the best mode of administering the drug*. They contain the whole of the constituents of Tar, and they are palatable and speedily disintegrate. The usual mode of administration is three or four every four hours; but a better plan is to suck one frequently—in fact, every time the cough is troublesome."

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remain in prolonged contact with the mucous membrane. Chlorate of Potassium "Tabloids" act as a valuable expectorant, and facilitate the expectoration of thick and tenacious phlegm; they remove foeter of the breath, and are invaluable to smokers. The *Lancet* says of them: "Of convenient size, they are beautifully made, and as they dissolve slowly in the mouth, are well suited as a stimulating expectorant." Supplied in metal boxes at 4s. and 6s., also in vinaigrette ovals at 4s. 6d. and 6s. per dozen.

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THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—

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Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.
Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.

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A COLONIAL ISSUE.

THE CHEMIST AND DRUGGIST has from its inception been closely identified with colonial trade, and no effort has been grudged in order to bring home-merchants and colonial-buyers together. We propose, on April 17 to give advertisers a special opportunity of addressing colonial and foreign buyers, as on that date the *C. & D.* will be sent to chemists and drug and chemical merchants in several thousand cities and towns in South Africa, Ceylon, India; Straits Settlements, Australasia, China, Japan, West Indies, and other colonial and foreign centres where trade can be done in druggists' goods of all kinds. It is an excellent opportunity, and one which good business-men should not miss. It will be in addition to the usual weekly circulation of the *C. & D.* For particulars apply to the publisher.



THE bankruptcy reports are good reading this week (p. 467).

MR. DIBBIN, the London County Council's chief chemist, has resigned (p. 456).

THE new Council of the P.A.T.A. has been elected. The names are given on p. 464.

IT is stated that Mr. Hooley is to buy Schweppes' soda-water business for 1,000,000/- (p. 476).

WE start a Welsh news section this week, which Welsh chemists can help to make bigger (p. 458).

OUR Paris correspondent specifies the conditions of entry in the School of Pharmacy there (p. 459).

THE Western Chemists' Association of London has decided to support the new Pharmaceutical by-laws (p. 474).

THE new Chemists' Association for the North Staffordshire district was successfully inaugurated last week (p. 462).

OUR report of the centenary meeting of the Paris Society of Pharmacy contains a number of notes on practical topics (p. 460).

PRICE'S PATENT CANDLE COMPANY (LIMITED) have held their fiftieth annual meeting, and intend to celebrate their jubilee (p. 476).

HENBY HEATH HELLIER, a man who has already served a term of imprisonment for long-firm frauds, is again in custody (p. 456).

M. PANNETIER, a French pharmacist, has written a book on the risks of pharmacy which contains some curious information (p. 472).

THE analyst for Glamorganshire, in his last report, makes interesting statements regarding the quality of drugs supplied in the county (p. 458).

THE average German pharmacist makes a profit of 20 per cent. on his trading. This is shown in an article on the condition of German pharmacy (p. 472).

MR. THOMAS STEPHENSON, of Bombay, communicates a graphic account of the bubonic plague, and gives notes on a personal experience of Haffkine's inoculation (p. 477).

THE House of Commons is so busy with the Schools Bill that no progress has been made during the past week with commercial legislation affecting the drug-trade (p. 464).

MR. PETER MACEWAN considers that the imagination plays an important part in scientific discovery, and that science well handled is useful in imaginative works (p. 462).

IN reference to the centenary of the Paris Society of Pharmacy we print an illustrated article on its origin, in which are included portraits of the 1797 and 1897 Presidents (p. 460).

WE show this week by the Pharmaceutical Society's own figures that the qualifying-examination fees are more than sufficient to pay for examination, registration, and administration expenses (p. 470).

AT the North British Branch meeting, last week, Mr. Glass gave some hints on the manufacture of soluble essence of ginger, and Mr. Isaac Thomson described a specimen of spurious scammony (p. 463).

TWO chemists in Middlesex have been summoned, under the Sale of Food and Drugs Act, for selling as lime-juice and glycerine a preparation certified to contain no glycerine. In one case, a fine was imposed ; the other was adjourned (p. 466).

SEVERAL assistants and apprentices in doctors' open shops at Coatbridge have been prosecuted under the Pharmacy Act, but the Sheriff, to mark his disapproval of the Pharmaceutical Council's selective method, fined them half-a-crown each only (p. 465).



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Victorian Era Photography.

The Royal Photographic Society have undertaken to organise, in connection with the Victorian Exhibition, a collection of objects illustrating the history of photography. We are asked by the Secretary to state that it is desired to bring together a thoroughly valuable and representative collection, and he will be glad if any of our readers who have objects of interest illustrating the history of photography will co-operate with the Society in lending them for exhibition. Articles should be addressed to the Secretary of the Royal Photographic Society, 12 Hanover Square, London, W.

Fires.

Mr. John Edward Ostler, paint and colour manufacturer, was mixing spirit and resin at his premises, 20 Alexandra Road, Hull, on Monday afternoon, when the spirits took fire. Instantly the place was enveloped in flames, and Mr. Ostler was severely injured, necessitating his removal to the hospital. The premises, which were insured, were completely gutted in about an hour.

A serious fire broke out late on Thursday night, March 11, at Holyhead, in a block of buildings situate in the old Market Square. The fire originated in one of the shops on the ground floor rented by Mr. W. H. Brislee, chemist and druggist, and the flames spread so rapidly that in a short space of time the whole of the structure was burning fiercely. Bluejackets and marines from H.M.'s guardship *Colossus* rendered valuable assistance, but notwithstanding this the whole of the block was burned to the ground. Three families, who were sleeping at the time of the outbreak, were rescued by the fire-brigade.

Fatal Accident to a Chemist's Son.

The eleven-year-old son of Mr. George Stocker, chemist, of East Southernhay, was killed last week by an unusual accident. He was out walking with a playmate, when a big Newfoundland dog ran against his legs and knocked him over. With the assistance of his companion he was able to walk home, and then, saying he had a headache, he was put to bed. He became unconscious, and died soon after, before the medical men sent for had arrived. It was afterwards found that the skull was fractured, and that there was a clot of blood pressing on the brain.

Resignation of the L.C.C. Chemist.

The strained relations between the Council and Mr. Dibdin, their chemist, have led to a rupture. Mr. Dibdin has written resigning his position. Mr. Dibdin has frequently been asked by various public bodies, including the Corporation of Dublin, to advise them on various matters. The Council declined either to let him undertake the work as a compliment to the bodies concerned, or to take a fee for it if it were offered. The number of such applications had convinced Mr. Dibdin that a considerable practice is in store for him if he cares to leave the Council. He has therefore decided to do so; and it is significant that his assistant also sent in his resignation on the same day and for the same reason. The chemist's work chiefly relates to analysis of water, sewage effluent, air in sewers, mortar, and so on. Mr. Dibdin claims to have discovered a new and perfect method of water-analysis, the secret of which he keeps.

Mr. Dibdin's letter embodying the above was read at the weekly meeting of the L.C.C. on Tuesday. The General Purposes Committee felt sure that it was with considerable regret that the Council would lose the services of so valuable

and able an official. They understood that Mr. Dibdin did not desire that his resignation should take effect until about three months' time, and they recommended that the resignation be accepted with regret, to take effect from June 30, 1897. Dr. Cooper moved that the report be referred back, to see if means could be devised whereby the services of Mr. Dibdin might be retained. It would be a great pity if they were to lose such a valuable man on the question of salary. No one could have read the chemist's report on the treatment of sewage without feeling that if the scheme were carried out it would entirely revolutionise the whole system of the treatment of sewage, and be a great pecuniary saving to the ratepayers. Dr. Longstaffe seconded, and observed that for many years past Mr. Dibdin had been shamefully underpaid. Mr. Cornwall (Chairman of the committee) said Mr. Dibdin had been a very valuable officer, but the question between him and the Council was not one of salary but of private practice. Mr. Dibdin felt all along that he should be allowed to take private practice, and he was resigning so that he could do so. Dr. Cooper withdrew his amendment, and the recommendation was carried.

It was also reported that Mr. G. Thudichum had expressed a wish to resign his position as chemical assistant, so that he could enter into private business. The committee recommended that his resignation be accepted as from June 2, 1897. Major Probyn thought an effort should be made to retain the services of Mr. Thudichum, and moved that the report be referred back. This found no seconder, and the recommendation was agreed to.

Henry Heath Hellier again in Custody.

The Lydd (Kent) police on Friday last succeeded in arresting Henry Heath, *alias* William Hellier, of Heath House, Lydd, on a Treasury charge of obtaining credit to the extent of 20*l.* without disclosing the fact that he was an undischarged bankrupt. Heath, or Hellier, is well known to the chemical and numerous other trades as a long-firm trader, and it was only two years ago last January that he was sentenced to a term of imprisonment for obtaining credit to the extent of 20*l.* and upwards from the Sanitas Company and other firms without disclosing the fact that he was at the time an undischarged bankrupt. Immediately he left prison he resumed his residence at "Heath House, Lydd," and recommenced patronising various houses in London and other parts of the country with his usual postcard orders. In the case in question for which he was arrested Hellier obtained goods from a Wrexham firm to the extent of 20*l. 17s. 5d.* When the police went to execute the warrant they found that Hellier had secreted himself in a barn. He had heavily barricaded the doors, and at the bottom of a flight of steps leading to a loft he had stationed two large dogs of the retriever breed. The police on forcing the door were savagely attacked by the dogs, and they had to protect themselves with their truncheons. The dogs were eventually overpowered, and it was not until then that Hellier crept down the ladder and gave himself up. He was marched off, in the company of a large crowd of persons, to the police station, and on Saturday was brought up at the Guildhall, Lydd, charged with unlawfully obtaining credit to the extent of 20*l.* whilst an undischarged bankrupt. Only formal evidence was taken, the Official Receiver of the Hastings Bankruptcy Court proving that Hellier was an undischarged bankrupt, and Superintendent Bailey, K.C.C., proving the arrest. Hellier was then remanded in custody for a week.

Hellier will be remembered by our readers as being formerly in business at Hawkhurst (Kent). Whilst there he dealt largely in drugs, which he obtained in a questionable manner and disposed of at one-third their value. He failed, and the bankruptcy proceedings recently published in this journal showed that his only assets consisted of the account paid by the petitioning creditor to make Hellier a bankrupt!

Before receiving this report we had received several inquiries from advertisers in this journal as to the standing of this man Hellier. Under the style of "Henry Heath, C.B.U." he was sending letters to advertisers always beginning "You may send," &c., and we thought it our duty to publish a specific caution. It is believed that the letters C.B.U. are intended for "Court of Bankruptcy, Undischarged." It remains to be seen whether that defence (if it should be raised) will be a sufficient one in point of law.

A Chemist's Shot.

Mr. Alfred S. Dell, chemist, Leigh, Lancashire, was the defendant in an action heard at the Liverpool Assizes on Monday, in which a Mr. Dalton, an innkeeper, sued for damages for injuries caused by the firing of a gun in Mr. Dell's hands. The two were in a party on October 16, 1894, when some shots were fired in an orchard at Lowton. For the plaintiff negligence was alleged, while the defendant's counsel maintained that the occurrence was a pure accident, and it was alleged that the plaintiff had at one time admitted it to be so. A verdict for 75*l.* was agreed to by the jury.

Child Poisoned by Hair-lotion.

Thomas Mercer, aged 2 years, son of William Mercer, Barton Street, Tyldeley, met with his death under painful circumstances on Sunday night. The child, being thirsty, asked the mother for a drink, and she, taking from the cupboard a bottle containing hair-lotion, which she mistook for Spanish-juice, gave the child a drink. He immediately afterwards showed such alarming symptoms that a doctor was called, but the child died soon afterwards.

Stealing a Chemist's Scarf-pin.

At the Sheffield Police Court, on March 11, George Brown, who said he was a Canadian commission-agent and came from Manchester, was charged with having stolen a diamond pin, value 3*l.*, from the person of Mr. William Dyson, chemist, of 55 Westbar, Sheffield. Mr. Dyson was coming from a football-match, and the prisoner snatched the pin from his tie and ran off. He was caught, and now pleaded guilty. The Stipendiary sent him to prison for two months with hard labour.

The Benevolent Fund.

A meeting of assistants and apprentices was held in Manchester, on March 10, in support of the Diamond Jubilee contribution to the Benevolent Fund. An effort is to be made to get subscriptions from the chemists' assistants of the district. Mr. J. Riding, 69 Market Street, Manchester, is the honorary secretary of the committee formed for this purpose. Preliminary list of donors:—

	s. d.		s. d.
Mr. A. Midgley	10 6	Mr. R. Sykes	10 6
Mr. R. G. Gourlay	10 6	Mr. A. Ogden	10 6
Mr. J. Bates	10 6	Mr. W. Hankinson	10 6
Mr. W. Rimington	10 6	Mr. L. N. Burch	10 6
Mr. H. Oldham	10 6	Mr. Chapman	5 0
Mr. Dean	2 6	Mr. Nicholson	5 0
Mr. Lunt	5 0	Mr. Riding	10 6
Mr. J. W. Overend	10 6		
Mr. Blaek	7 6		£7 0 6

Football.

On Saturday last the Barronetta Football Club (Barron, Harveys & Co.) played Muter's F.C. at Wormholt Farm, winning by 3 goals to nil.

A match between the Northern and the Manchester Colleges of Pharmacy was played at Fallowfield on Saturday, March 13. The result was a win for the Northern men by 6 goals to 1.

Pharmaceutical v. Crownfield. This match, played at Walthamstow on Saturday, March 13, resulted in a win for the home team. Score: 3 to 2. Pharmaceutical team: Matthews, goal; Jones and Happold, backs; Nelson, Webster, and Surfleet, half-backs; Day, Lorimer, Fothergill (centre), Jackson, and Tebbutt, forwards.

The Alkali-trade in Mid-Cheshire and Northumberland.

An extraordinary meeting of the shareholders of the Cheshire Alkali Company, Middlewich, has been held at Crewe under the chairmanship of the Hon. Alan Egerton, M.P. The meeting unanimously adopted the proposed sale of the works to Brunner, Mond & Co. (Limited). Under the agreement the Alkali Company's shareholders receive about 35*s.* for every paid-up 50*s.* share, and 30*s.* for shares on which there is a further liability of 5*s.* The purchasers will pay the whole in cash, or part in cash and part in preference and ordinary shares in Brunner, Mond & Co. (Limited). It

is understood that the total purchase-money is about 100,000*l.*

The report that the Northumbrian Chemical Company's works are about to be transferred to the United Alkali Company appears to be substantially correct. The Alkali Company are understood to have made an offer for the works, and a meeting of the Northumbrian shareholders is to be held to consider the same.

Drug-contracts.

The Leominster Guardians have accepted the tenders of Messrs. Ellwood & Son for the supply of Jeyes' disinfectant fluid in 40-gallon casks at 4*s.* per gallon, Jeyes' disinfectant powder at 1*l*. 9*d.* per cwt. The High Wycombe Guardians have accepted the tender of Messrs. Young, of High Wycombe, for the supply of cod-liver oil, quinine, and disinfectants. The Boston Guardians have accepted the tender of Mr. Booker for quinine at 1*s.* 1*½ d.* per oz. The Runcorn Guardians have accepted the tender of Messrs. Spearman Brothers for drugs and sundries.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Chemists' and Druggists' Society of Ireland.

The committee of this Society met on March 12, Mr. S. Cloworthy in the chair. Mr. Gibson (Hon. Treasurer) reported that he had forwarded to the publisher of THE CHEMIST AND DRUGGIST the names of all members who had paid for this year. It was agreed to remind those who had not paid. The following were elected to membership:—Messrs. Wm. Irvine, Dungarvan; G. W. Lawson, Limavady; Edward Roberts, Belfast; John Rait, Stranorlar; and Andrew Hanna, Belfast. Sir James Haslett, M.P., and Messrs. S. Gibson, S. Cloworthy, John Campbell, J. H. Shaw, Jas. Richardson, and the Hon. Secretary were appointed a Law and Parliamentary Committee; and Messrs. S. Gibson, Robert Campbell, S. M. Dowell, W. Lyttle, and W. J. Rankin a Price-lists Committee. The rules as revised were ordered to be printed and circulated. Mr. Robert Diamond was appointed Hon. Solicitor to the Society.

Pharmaceutical Society of Ireland—April Examinations.

The last days for lodging applications will be:—Monday, March 22, for the Preliminary examination; Monday, March 29, for the Pharmaceutical Assistants' examination; Tuesday, March 30, for the Pharmaceutical Licence and Registered Druggist examinations.

The Pharmaceutical Licence examinations will (subject to approval by his Excellency the Lord-Lieutenant in Council) commence on Tuesday, April 13, in order that they may be concluded before Good Friday, April 16.

Poisoned by Rat-cake.

A schoolboy, 10 years of age, named Graham Taaffe, has been poisoned at Dublin through eating some arsenical rat-cake which another boy had quite innocently given him. The cake was known as Hammond's patent rat-poison, and though the word "Poison" was printed on the wrappers, there was no indication on the cake itself that it was anything unusual.

Presentation.

Dr. E. W. Allsop has been presented with a valuable solid-silver tea and coffee service by the officials of the Cork Workhouse, who marked in this form the esteem in which he was held by them during his connection with the institution as apothecary, a position from which he recently retired. The presentation was made in the board-room, Cork Workhouse, in presence of a large company. On one of the pieces of the

presentation was the following inscription:—"Presented to Dr. E. Whitley Allsop by the officials of the Cork Workhouse as a mark of esteem and respect on his retirement from the membership of the staff, March 4, 1897."



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Edinburgh Pharmacy Golf Club.

The golf section of the Edinburgh Pharmacy Athletic Club met at 36 York Place, Edinburgh, on March 10, Mr. James McBain, President of the club, in the chair. This was the first meeting of the section as a fully-constituted golf club. The following office-bearers were elected:—Captain, John Greig; Vice-Captain, Thomas Welsh; Secretary, David Harley; and as members of committee, Messrs. Gibb, Birnie, Forret, Walker, and Horsburgh. The rules were revised, and it was decided that no extra sum should be paid beyond the annual subscription to the Athletic Club, the committee of the latter having undertaken to defray all the expenses. It was intimated that in addition to the present trophies a medal would be presented for competition by Mr. David McLaren. [This is not the club about which a note appeared last week. We are informed that our paragraph last week may be a little misleading. It is not the case that the entire "golfing section" have separated themselves from the athletic club, although the majority of active members have joined the new club. The Assistant-Secretary of the club mentioned last week is Mr. J. G. Robb, and not Mr. Greig as stated, while Mr. T. D. Burt's name should appear in place of Mr. Paterson's as a member of committee.—ED. C. & D.]

Merry and Wise.

The Junior Chemists' Association of Aberdeen marked the close of their session with a cinderella dance at the Royal Hotel on March 9.

The employés in the wholesale departments of Messrs. Duncan, Flockhart & Co.'s business had their annual smoking-concert at the Melville Hotel, Edinburgh, on March 5.

Mr. Dundas Simpson was last week entertained to supper in Buehan Arms Hotel, Broxburn, and was presented with a purse containing twenty sovereigns, on his leaving the management of the Medical Hall in Broxburn for Nottingham.

Sir Douglas Maclagan's Successor.

Sir Henry Littlejohn, M.D., has been appointed to the chair of medical jurisprudence and public health in the Edinburgh University. The new professor has for many years lectured on these subjects in the extra-mural medical school, and he is noted for his forensic skill. He is medical officer of the City of Edinburgh and to the Scottish Local Government Board. The interest of the appointment to pharmacists is in connection with the visitorship to the Pharmaceutical examinations still retained by Sir Douglas Maclagan, who, we observe, is to have the LL.D. degree conferred on him by the Edinburgh University.

"Dynamite."

This is the latest name for methylated spirit. There are lots of people in Edinburgh who drink it, and writers for evening papers have no difficulty in making up a sensational Saturday column about the matter. Two points only in an article in last Saturday's *Evening Dispatch* deserve notice; first, that methylated spirit is sold by public-houses, which is so illegal that an extremely heavy fine is attached to it, and there should be little difficulty in proving or disproving the statement. The other point is an assertion by "a medical

authority in the city" that laudanum-drinking has assumed startling proportions in Edinburgh. Opium-drinkers appear to find not the slightest difficulty in procuring very large quantities of the poison from chemists, and no serious obstacle is apparently put in the way of the satisfying of the desires of the laudanum-drinkers. That goes against the honour of Edinburgh chemists. What foundation is there for it?



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Pharmaceutical Preparations in Glamorganshire.

The Public Analyst (Mr. C. A. Seyler) has sent in an unusually lengthy report to the Glamorganshire County Council. He discusses the addition of boracic acid to milk, butter, &c., and the proposed new legislation. Then he states that during the past quarter he has paid special attention to the examination of samples of alkaloidal tinctures. In all cases he says he has followed the methods of Farr and Wright. He reports on eight samples of tinct. nucis vomicae. These yielded the following results:—

	Parts of extract per 100 volumes	Parts of alkaloid per 100 volumes
1 ..	1.21	.216
2 ..	1.24	.114
3 ..	1.30	.226
4 ..	1.04	.203
5 ..	1.28	.192
6 ..	1.66	.202
7 ..	1.07	.196
8 ..	718	1.310

No. 8 was labelled liquor nucis vomicae, and was about six times as strong as the tincture. Such liquid extracts are used (generally about eight times the ordinary strength) for preparing the tinctures, and are useful preparations, but very dangerous to sell over the counter. In all the other cases (Mr. Seyler remarks) the strength is appreciably under the Pharmacopoeia standard—in one case to a large extent. These results are hardly satisfactory for a drug which is supposed to be standardised. The strength of the alcohol seemed in all cases to be correct. Five samples of tinctures of belladonna were examined for alkaloidal strength. They yielded respectively 0.012, 0.019, 0.028, 0.0136, and 0.0228 parts of atropine per 100 volumes, showing a variation in strength of over 50 per cent. Farr and Wright suggest 0.025. Four samples of tincture of hyoscyamus were tested for alkaloids, and in these 0.003, 0.011, 0.014, and 0.013 parts per 100 volumes were found. Farr and Wright suggest 0.010, so that three of the tinctures exceeded the limit, while one contained less than one-third of this amount. One sample of belladonna-extract contained 1.34 per cent. of alkaloid, which is low. The samples of ipecacuanha-powder were all free from foreign starches. Eight samples of Fowler's solution were examined, and none reached the B.P. amount of arsenite of soda, which is 994 gr. per 100 fluid parts. With one exception they varied from .918 to .988. One sample only contained .827 part by the Pharmacopoeia test. The total arsenic calculated as arsenic acid amounted to .932, so that part of the sample must have existed as arsenic acid instead of arsenious acid. Twelve samples of spirit of nitrous ether were examined. One yielded 7 volumes of nitrous oxide gas, six yielded 5 volumes, and the remaining five samples all fell very much short of the lowest permissible strength, in four cases giving only twice their volume of gas, or less. The sample of tincture of rhubarb contained saffron, an ingredient which is sometimes omitted. All the samples of castor oil and olive oil were genuine.

Mr. Seyler recommends that, in addition to the tinctures already tested, samples should be taken of tinctures of cinchona, aconite, and opium, and also of the liquid extract of cinchona.

Colonial and Foreign News.

A FORGER CAUGHT.—A man is under arrest at Syracuse who had given an engraver a full order for plates for labels, &c., for Dr. Williams's pink pills for pale people. He has no connection with the company, but is a clever coiner.

TRAVELLERS IN NORWAY.—In Norway there is a law under which it is necessary for persons who are not Norwegians or Swedes, acting in Norway as representatives for other parties for the sale of wares to be imported into Norway from other countries to take out a trading licence, which costs 100 kroner (5*l.* 11*s.* 1*d.*) per month.

A PHARMACEUTICAL CELEBRATION.—Our worthy contemporary, the *Pharmaceutische Post* of Vienna, is celebrating the completion of its thirtieth year of publication by offering a complete microscopic outfit as a prize for the best treatise on the determination of value of drugs, galenicals, or pharmaceutical preparations, sent in before the end of the present year by an Austrian pharmacist. Five gentlemen prominently connected with pharmacy and chemistry will form the jury.

BUSINESS CHANGES.—Messrs. Mager & March have purchased the stock of C. E. Gardner & Co., chemists and druggists, Queenstown, Cape Colony, who are relinquishing their business.—Mr. Standish Lee, who, in 1893, took over the business of the Nilgiri Pharmaceutical Company at Coonoor, British India, appears to be a live pharmacist. A local journal compliments him upon the manner in which he has extended his business in several new directions—laying down a soda-water plant, among others—and the help he is giving to the new Nilgiri industry of jam and condiment making.

PHARMACISTS IN WESTERN AUSTRALIA.—The Pharmaceutical Register of Western Australia contains seventy-four names, which doubtless includes registered chemists who are assistants and partners in other businesses. Under the Pharmacy and Poisons Act a list is added of persons licensed to sell poisons for the year 1897, which mentions forty-eight chemists and three storekeepers. Four of the registered men hold Minor British qualification, and one a Major. Four hold the Victorian certificate, and one the Queensland. Most of the others are registered as members of the Pharmaceutical Society of Western Australia.

GOVERNMENT COMPETITION WITH PHARMACISTS IN INDIA.—Acting upon the complaint of a pharmacist in the Nilgiris, the Government of Madras has decided to restrict the practice of selling medicines at municipal dispensaries. There seems to have been good cause for this action. At one municipal dispensary the medical officer was in the habit of supplying to patients a large number of patent and other drugs, not issued from the Government stores. The Surgeon-General thinks that the sale of medicines from municipal or local fund hospitals should cease at stations where a qualified druggist exists. The only instances in which it would be justifiable to have a prescription made up at the hospital are, in his opinion—(a) When the medical officer deems it desirable that the medicines should be compounded under his own supervision; (b) when there are any doubts as to the purity of the drug in the local market, or when it is not procurable there; (c) when for special reasons it is deemed desirable to maintain secrecy as to the nature of the prescription; (d) in the case of poor public subordinates, who may require medicines for their own use, and not be able to pay the rates charged by druggists.

METHYLATED SPIRIT IN INDIA.—The quantity of spirit methylated in Bengal last year shows a considerable increase. In 1894-5 it was 54,282 gallons; in 1895-6 59,854 gallons. Methylated spirits are, of course, professedly imported or prepared for use in arts and manufactures and in chemistry, and in this idea the duty thereon is fixed at a low rate of 5 per cent., *ad valorem*. It has lately been shown, however, that spirit methylated

with wood-naphtha can be manipulated into a drinkable spirit, and the Bengal administration have therefore taken under consideration a scheme for denaturing the spirit in a more effective way. The medium with which the spirit is to be rendered "completely and permanently unfit for human consumption" is "caoutchoucine," with which it is to be mixed. A horrible sort of eau-de-Cologne used once upon a time to be made in Calcutta. It was done up in bottles imitative of the well-known bottles of the celebrated "Farina," and the lady new-comer to India, inexperienced in the boxwallah's wares, was liable to think that she had picked up a bargain indeed—until she tried the "perfume" upon her pocket-handkerchief. This country-made eau-de-Cologne, the manufacture of which was formerly carried on to a large extent in Backergunge, was prepared with spirit made from wood-naphtha; but, luckily, the manufacture of the indigenous eau-de-Cologne has almost ceased, and it is not thought worth while to make it a special matter.

French News.

(From our Paris Correspondent.)

THE SUCCESSOR TO M. TRÉCUL in the Section of Botany at the Paris Academy of Sciences is M. Gaston Bonnier, Professor of Botany at the Sorbonne, where he succeeded M. Duchartre. He is the author of works on the structure and coloration of plants, which have brought him into some prominence.

A QUEEN'S DIAMOND JUBILEE FUND has been started in Paris with the object of aiding British charities in France. An influential committee has been appointed, of which Dr. W. Douglas Hogg, a well-known English pharmacist here, is Honorary Secretary and Treasurer. Dr. Hogg was the initiator of ambulance classes in France. He is a pharmacien de première classe and an M.D.

PHARMACY AT MONTPELLIER.—The annual report of the Superior School of Pharmacy at Montpellier (one of the leading provincial schools) drawn up by M. Jeanjean, the director, has just appeared. The number of students during the past year was 114, and is practically the same as in 1895. Of these 83 seek to obtain the first-class certificate. During the year 51 perfected pharmacists received their diplomas from the school; of these 38 were first-class and 13 second-class. It is noticeable that the proportion of the latter diminishes yearly. If the new pharmacy law comes into force, the second-class diploma may be suppressed. The sum of 60*f.* having been allowed by the Government for practical bacteriological work, this useful branch of study will now be included in the curriculum.

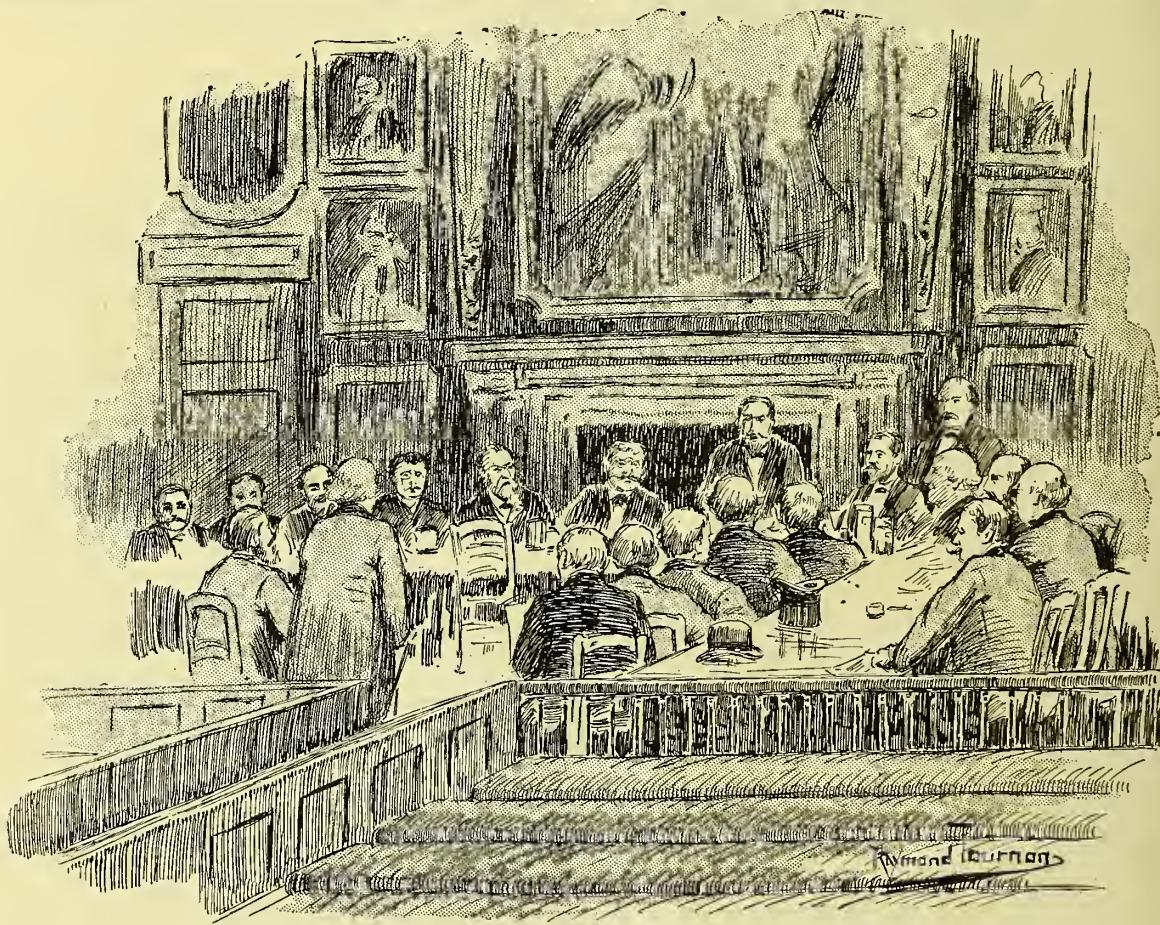
AT THE PARIS SCHOOL OF PHARMACY.—The new series of classes commenced a few days ago. M. Moissan opened his course on March 11, his initial lecture being on "Recherches Toxicologiques de l'Alcoöl et Alcoölisme." On the same day, M. Guignard commenced his botany lectures. M. Radaïs' cryptogamy course began on March 12, and M. Prunier's class on "Chemical Pharmacy" on March 13. In answer to my inquiry at the secretary's office, the clerk told me that any one, Frenchman or foreigner, can attend these lectures, entirely free of charge. The only fees for study at the school are for the practical or laboratory work, where outsiders or foreigners pay 40*f.* (1*l.* 12*s.*) The bulk of the school-fees are for the examinations. I notice that the President of the Pharmaceutical Society recently made the statement that English is a necessary part of the Preliminary knowledge required of a pharmacien de première classe. This impression might easily be obtained, but it is erroneous. Of course, English forms no part of the curriculum of the schools of pharmacy here. English may (or may not) form part of the education of a French pharmacist before he enters a school of pharmacy. As in the other faculties—medicine, law, &c.—students must give proof of having received a satisfactory education, before commencing their special studies, which test is a "bachelor" diploma. In the "baccalauréat ès lettres," for instance, the candidate must pass an examination in either English or German, but both are not necessary.

Paris Society of Pharmacy.

TO a student of the "times gone by that seem almost a dream" this meeting offered considerable interest as being the centenary gathering since those ardent pharmaciens met in the old School of Pharmacy on March 18, 1797.

The chair was taken by M. Sonnerat, the President, at 2.15 P.M. The gathering was numerous, and the proceedings were of more than an ordinarily interesting nature. Amongst the best-known members present were Professors Planchon, Bourquelot, and Villiers Moriamé. There were also a number of head pharmacists of Paris hospitals, including MM. Guinochet (Charité Hospital), Patein (Lariboisière), Lafont (Cochin), Portes (St. Louis), Béhal (Ricord), and the ever-courteous Dr. Viron, of the Salpêtrière Hospital. MM.

by M. Boulanger Dausse on "The Action of Guaiacol on the Germination of the Spores of Aspergillus Fumigatus." M. Petit then gave the result of his researches made with M. Poloski on pilocarpine and pilocarpidine and their salts. They have studied and analysed eleven salts of the two alkaloids and determined their rotatory powers. He showed some crystals of pure pilocarpidine, and gave interesting details of the experiments. M. Petit also made some remarks on "The Oxidising Ferment of the Receptacles of Artichokes." Then M. Patein followed with a paper on "The Action of Antipyrin on Aldehydes." He has found that the body obtained by Knorr and that known in France as *formopyrin* are identical with formic aldehyde. M. Béhal made some remarks, on behalf of M. Blaise, on the subject of "The Colour-reactions of Quinine." A diluted solution of quinine treated by bromine-water gave a fast yellow colour; the



THE PARIS SOCIETY OF PHARMACY IN SESSION.

Grimbert, Crinon, Petit, Wurtz, Julliard, and Schmidt were among the attendance. The General Secretary commenced the business of the meeting by referring to the correspondence received, and he gave the names of some fourteen periodicals, &c., almost all connected with pharmacy, addressed to the Society since the last meeting. A letter was read from the President of the Eighth International Congress of Pharmacy, to be held in Brussels this year, inviting the Society to take part in the meetings. It was decided to accept the invitation, and, after some other matters had been discussed, M. Petit proposed that a committee should be formed for the purpose of organising an International Congress of Pharmacy at Paris on the occasion of the exhibition of 1900.

The President referred in suitable terms to the loss the Society had sustained by the death of two such prominent members as Dr. Bourgoin and M. Vée.

M. Bürcker then described, on behalf of M. Georges (of the Val de Grace School of Military Medicine), the character of a new variety of albumen. M. Bourquelot read a paper

addition of a small crystal of bicarbonate of potash produced an intense red colour, which was, however, somewhat fugitive. The reaction is very delicate, and to obtain a clear, decided result much care is necessary. After another paper by M. Mourau, M. Lafont read a report on the claims to membership of the Society, as resident members, of three pharmacists; and at 3.20 the centenary meeting of the Society of Paris Pharmacists was brought to a close. The numerous attendance in the *Salle des Actes*, and the interest taken in the somewhat numerous scientific papers read, sufficiently proved, if any proof were needed, that there is as much vitality in the Paris Society of Pharmacy as ever. On looking round the room at the assembled members, one is struck by the different paths in which their daily routine lies. The President, M. Sonnerat, is in business. Dr. Lafay, too, one of the youngest members, has just bought an *officine* in the centre of Paris, and he is a man who has taken all the honours that the School of Pharmacy and the Faculty of Medicine can offer; it is

interesting to note how many pharmacists take their medical degree. Then there are hospital pharmacists, amongst whom is Dr. Viron, the editor of the *Union Pharmaceutique*. In another category is M. Petit, who is also in business, is President of the Association of the Pharmacists of France, one of the editors of the *Journal de Pharmacie*, and has many other duties. The professors of the School of Pharmacy are here in goodly number. At their head is the respected M. Planchon, the director. These men meet and transact their business with charming cordiality, and it may be said of them that none more courteous can be found in a country that passes for being the home of courtesy. And when one sees the work they accomplish one almost fails to understand how it is that Frenchmen pass for being the most superficial in the world. The Paris Society only attaches a passing importance to the present centenary, and is reserving itself to celebrate the hundredth anniversary of its existence in its present form, which will take place in 1903.

The Paris Society of Pharmacy a Hundred Years Ago.

IT was on March 18, 1797, that the "Société Libre des Pharmaciens de Paris" held its first meeting at the old School of Pharmacy building, which still stands in the rue de l'Arbalète. "Their educational institution had somehow escaped official suppression," M. Planchon remarked the other week to a *C. & D.* representative, "probably through their zeal to be useful to the Republic in the manufacture of salt-petre, the extraction of sugar from the beet-root, and similar services rendered to a country then at war with half Europe." For those were the days when the invasion of Ireland was being planned, and the English frigates were vigilantly cruising the Channel and watching the French ports. But this did not prevent the pharmacists of Paris quietly assembling in the Salle des Actes. This hall, though somewhat

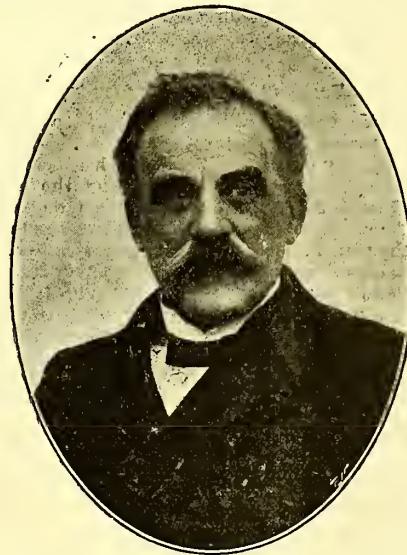


M. TRUSSON, President, 1797.

smaller, was almost identical in general appearance with the Society's present place of meeting, and their "Journal," first published in 1797, and preserved in the Paris School of Pharmacy's Library, gives an interesting record of the proceedings. It is curious to remark that the meeting was held at 5 P.M. in those days of badly-lighted streets, when omnibuses were not, and hackney-carriages were almost absent—they had been abolished during the Revolution, and had only just reappeared—for the rue de l'Arbalète is half a mile or more beyond the Pantheon. Yet we find there the venerable Pia, who was 75 years of age, and had been one of the "deputies" of the old Royal College of Pharmacy in 1777. He had come from the Faubourg St. Antoine, Nachet from the rue de Temple, and Guinquet (whose name, like Sir Humphry Davy's, has been perpetuated by

the lamp he invented) from the Marché aux Poirées, besides many others who lived nearer.

Trusson, director of the "Free School of Pharmacy" (a rubicund, white-wigged old gentleman, whose portrait hangs in the new Salle des Actes), presided, and read a speech "of which many passages gained well-merited applause." He detailed the various objects of public utility which would be aimed at by "the new organisation, founded on the principles of liberty and the Republican Constitution." His tribute to the memory of "generous Houel" (founder of pharmaceutical education in France), the allusion to the "barbarous government of kings, which thwarted his object," the frequently recurring references to Nature and Humanity, are all characteristic of the Jean Jacques Rousseau school of sentimentality. The Directory, "ever prompt to welcome



M. SONNERAT, President, 1897.

and encourage all that could tend to the progress of knowledge and the public welfare," had, he announced, assured them the use of their premises and garden, and regular classes for pharmacy, chemistry, natural history, *materia medica*, and botany were to be opened. The last-named subject would appropriately be commenced in the month of "Floreat," and botanical excursions—then a novelty, for the pre-revolutionary programme did not include these rambles—would be organised. Fourcroy, who, since Lavoisier's death, might be considered to stand at the head of French chemists, and whose "Elements of Chemistry," by the way, was translated into English just at that time by Thomson, of the Edinburgh Medical Society, then communicated a note on the spontaneous action of cold concentrated sulphuric acid on organic bodies. Nachet followed with some observations on the best method of teaching pharmacy, dwelling particularly on the necessity of fully demonstrating each operation to students. Bouillon Lagrange explained a new process of obtaining caustic alkali for commercial and industrial purposes. This savant was then a young man of 32, holding an appointment at the Polytechnic School, and had recently been named secretary of the Free School of Pharmacy. Vauquelin, then chemistry professor at the school, read a paper on the formation of ether, and he appears to have compared notes with Fourcroy on this subject.

The "Cap of Liberty" on the dome of the Invalides had been struck by lightning, and had fallen. Guinquet (from a "sentiment of humanity which ever does honour to the heart of Republicans," says the reporter) sought to explain the cause of the accident, and to speak of lightning-conductors in general. Pia's speculations as to the reason why rain usually accompanies southerly winds closed the proceedings towards 8 P.M., and left the members free to thread their way home through their narrow and ill-lighted streets, discussing, maybe, the victories of young Bonaparte in Italy, the terms of peace proposed by Pitt, or the British victory off Cape St. Vincent.

The Winter Session.

CHEMISTS' ASSISTANTS' ASSOCIATION.

No. 103 GREAT RUSSELL STREET, W.C., will know this Association no more. The club-house in which the members have met for so many years will in a few days be in the hands of the London navvy, preparatory to a new building being erected on the spot. Meanwhile the club committee have secured premises in Queen's Square, and there, we understand, the C.A.A. meetings will be held in the future. There were no expressions of regret at the approaching departure when the members met on Thursday evening of last week—in fact, no mention of the matter was made publicly, because it was not until after the meeting that the Council was to decide upon the matter finally. The subject of the evening was

SCIENCE AND IMAGINATION,

upon which Mr. Peter MacEwan contributed a paper, owing to the absence of Mr. Thomas Tyrer. Mr. MACEWAN said that, if time had permitted, he would have elaborated his remarks into something like "The place of the imagination in science, and the influence of science on imaginative literature," but it was only possible that evening to gnaw the bones of the matter. It is too common a notion, he said, that science is all sober fact, without imaginative relief, and uninfluenced by imaginative powers. The greatest scientific conceptions, those generalisations or theories which have carved out fresh paths of progress and research, are the conceptions of imaginative men. From Aristotle to Newton in past generations, from Darwin to Kelvin in the present, there have been such men; men whose thought has been as epoch-making as their work, and who will live because they have been creators.

It is a curious fact that the highest developments in science should be so closely associated with the very thing which, as students of the material, we are warned against. We must observe, not imagine, say our teachers. It is permitted to philosophers to do both. For what is philosophy but thought controlled by head; imagination thought controlled by heart. Philosophy never does, nor should it, outrun facts; imagination frequently does.

There is an intimate relation between the two branches; there is a point at which the imaginative in science, and science in imaginative literature, join hands. Edgar Allan Poe says in one of his marginalia:—

The pure imagination chooses, from either beauty or deformity, only the most combinable things hitherto uncombined, the compound, as a general rule, partaking in character of beauty or sublimity in the ratio of the respective beauty or sublimity of the things combined—which are themselves to be considered as atomic—that is to say, as previous combinations. But, as often analogously happens in physical chemistry, so not unfrequently does it happen in this chemistry of the intellect, the admixture of two elements results in something that has nothing of the qualities of one of them, or even nothing of the qualities of either. . . . Thus, the range of the imagination is unlimited. Its materials extend throughout the universe. . . . The richness or force of the matters combined, the facility of discovering combinable novelties worth combining, and especially the absolute "chemical combination" of the completed mass—are the particulars to be regarded in our estimate of imagination.

Applying this criterion to scientific leaders and writers, Mr. MacEwan proceeded to show that many of them have been reputed for their imaginative powers. He specially instanced Davy, Lavoisier, Dalton, Lord Kelvin, Kékulé, Van der Wall, Crookes, Lippmann, and Röntgen as men who were or are more or less singularly gifted in this respect, since by their imaginative influence they have created new lines of practical effort, which equally able but less imaginative men have failed to do. From all this he deduced that in scientific theorisation the choice of "the most combinable things" is the criterion as it is in non-scientific literature. He also called attention to the wonderful influence that the imagination has had upon our scientific literature, for there are not a few of our *savants* whose imaginative powers seemed to come into play when the pen was put in their hands. Think of the efforts of Tyndall in this direction, the power he had to make abstruse facts plain things to the

uninitiated. This faculty is not unconnected with imaginative power, it is really the concentration of imaginative effort. So with Huxley and many another.

Turning to general literature, he spoke of those who purposely use scientific facts as the basis of imaginative narrative. Edgar Allan Poe is the originator in modern times of this particular cult. He was a master-hand in style, in analytical reasoning, in what may be called scientific insight, and in illusive power.

Perhaps he had inspiration on the psychological side from Voltaire's "Zadig," and, maybe, Mary Godwin's "Frankenstein" pointed to him the value of physiological facts in narrative, but Poe is not at all departmental. Astronomy, chemistry, and physics are as familiar to him as aéronautics, psychology, and medicine; and he surpasses all writers of his kind in freedom from the amateurish taint. He is a scientist as well as a tale writer, and his facts are generally so good that it is not difficult to conceive that if he had specialised in science instead of cultivating literature he would have been a brilliant scientific discoverer; he had that rare gift which makes philosophers—the power of taking "combinable things hitherto uncombined" and making theories out of them. Theories are the guiding-posts of science. Poe's frailties made him a writer. He perceived that the first effect of incorporating science with imaginative narrative is to give it an air of reality obtainable from no other garnishing. The reason of this is not far to seek. The ordinary imaginative writer who deals with the facts and feelings of every-day life strikes ground which is common to most of his readers, and they quickly detect exaggeration. Not so the man who ventures a scientific theme into his narrative. Few of his readers are able to check his facts, and he may take the wildest flights without detection, yet leave his readers so deeply impressed with the narrative that it is difficult to persuade them that it is not true.

Mr. MacEwan commented upon the methods of Zadig and the influence which they now have on medical diagnosis, explaining, however, that the methods are much older than Voltaire, for it is by such processes that science is a chain of observed facts orderly arranged and linked. The writings of Poe, Verne, Robert Barr, Conan Doyle, H. G. Wells, and others were referred to, and examples of almost prophetic power from their writings quoted to show that when exact knowledge is allied with imaginative effort the result appears convincing even to scientific persons. He dealt also with the inaccuracies of some of these writers; and concluded by saying that novelists appreciate the power of anything which sounds scientific, for if they can get rid of a character by smelling something which is not volatile, or by a drop of a poison which tastes not nor leaves a trace, they are sure to bring it in. But there is the larger view of the matter to be considered why so few novelists have handled science intelligently and systematically. He thought the reason for this is that a scientific training aborts imaginative tendencies; and the combination of the power of experimental accuracy and imaginative facility is rare. Few living men of science are imaginative; for if imagination is to be a success in this department it must be joined to exceptional knowledge, else it runs riot, brings the thinker into discredit, and extinguishes him. Were such men caught at the point of extinction and had their talents turned upon fiction we should not lack Poes and Verne, but they are too conceited about their theories to shift from their scientific pedestal to the literary ladder.

The discussion which followed was appreciative rather than critical, and was joined in by Messrs. CHARLES MORLEY (President), TICKLE, STROTHER, and E. W. HILL.

NORTH STAFFORDSHIRE AND DISTRICT CHEMISTS' ASSOCIATION.

THE inaugural dinner of the North Staffordshire and District Chemists' Association was held on Thursday last at the North Stafford Hotel, Stoke-upon-Trent, following a large meeting in the afternoon at which a resolution forming the Association was passed. The chair was taken at the dinner by Alderman J. Averill, J.P. (Stafford), the first President, who was supported by Messrs. F. W. Adams, J. W. Moore (Vice-Presidents), Edmund Jones (Hanley, Hon. Secretary), Weston Poole (Treasurer and Librarian), W. Gowen Cross, J.P. (Shrewsbury), J. Rymer Young (Warrington), Councillors of the Pharmaceutical Society; M. Conroy (Liverpool), J. F.

Gibson (Wolverhampton), F. H. Alcock (Birmingham), M. Prosser (Wolverhampton), W. Brinson (Liverpool), T. C. Cornwell, I. H. Heap, J. D. Furnival, J. H. Waldron, W. Elmitt, R. T. Christopher (Hanley), R. G. Emery, R. D. Holt (Stoke), R. Prince (Longton), — Hemingway, F. Jacks, W. Jenkins (Stone), W. Marson, G. Westhead, F. Fowke (Stafford), C. J. Wain, D. H. Oxen, — Hale, Saunders (Newcastle-under-Lyme), T. Charles (Burslem), S. C. M'Kee, G. Viggars, W. P. Oulton (Tunstall), — Hankinson (Uttoxeter), — Goodman (Eccleshall), Dr. Hind (Stoke), and Mr. W. B. Allison (N.S. Infirmary). In the course of the evening Dr. HIND proposed "The Pharmaceutical Society," for which Mr. CROSS responded. He touched upon the great good the Society was doing, not only for its own members, but also for those who were in no way associated with it. The Society and its work were not really understood by many chemists. Mr. RYMER YOUNG, who also responded, directed his remarks principally to the proposed alteration of the Preliminary examination. The great drawback to the scheme in his opinion was that it would not come into operation early enough. Mr. CORNWELL (Hanley), whose name was also associated with the toast, spoke of the services the Society rendered to the trade. "The North Staffordshire and District Chemists' Association" was proposed by Mr. F. J. GIBSON, President of the Midland Association, and was replied for by the LIBRARIAN and the SECRETARY. "The Medical Profession" was given by Mr. W. MARSON, and responded to by Messrs. W. P. OULTON (dental surgeon) and W. B. ALLISON (N.S. Infirmary). "The Visitors," who were toasted by Mr. W. B. MOORE, were represented, in reply, by Messrs. CONROY, ALCOCK, and PROSSEER. Mr. C. J. WAIN proposed "The Wholesale Houses," Messrs. BRINSON (Evans, Sons & Co., Liverpool) and ARDWINCKLE (Messrs. Hirst, Brooke & Hirst) responding. Songs were given by Messrs. C. L. Forrester, Ed. Jones, W. Brinson, and T. C. Cornwell, and Mr. D. H. Oxen gave several recitations. During the evening congratulatory telegrams were received from Messrs. Walter Hills, R. Bremridge, Ed. Evans, C. Thompson (Birmingham), and Darton Gibbs (Birmingham).

Mr. Edmund Jones, chemist, Hanley, also sends us an account of the dinner, and states that persons who believe that chemists are unsociable would have modified their opinion if they had been present. He was never at a meeting where more enthusiasm and apparent interest prevailed, and he thinks other districts might take the hint.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

NORTH BRITISH BRANCH.

At the meeting held on Friday, March 12, Mr. J. L. Ewing in the chair, Mr. W. S. GLASS communicated some

NOTES ON ESSENCE OF GINGER.

He said that with the object of obtaining in small quantities a satisfactory essence he had made experiments on the various gingers of commerce—viz., Jamaica, Cochin, and African—which were found on analysis to yield the following factors:

—	Moisture	Extract	Ash
Jamaica	9.33	5	5.3
Cochin	11	4.33	4.6
African	8	6.33	5.5

The author called attention to the fact that authorities are at variance regarding the ethereal extract obtainable from the respective gingers. Thus Thresh gives Jamaica 3.290, Cochin 4.965, African 8.075; Frank and Siggins (alcoholic extract), Jamaica 5, African 6.17 and 6.7; Reigel, Jamaica 5. Experiments seemed to prove that while African ginger is unsuitable as a powder for pharmaceutical purposes, it yields the highest percentage of oleo-resin and the strongest essence. He had prepared samples of a soluble essence from Jamaica and African ginger, which possessed all the flavour and other virtues of the ginger, by taking essence of ginger 3*ij.*, pumice in powder, 3*ij.*, shaking occasionally during twelve hours, then adding, gradually, distilled water 3*ij.*, shaking

on each addition, and filtering after six hours. In preparing essence of ginger, B.P., in small quantities he found that a cylindrical zinc percolator, with a concave perforated bottom, 3 inches diameter and 7 inches long, was superior to any others. A pint of essence of ginger with this percolator can be prepared in a reasonable time with very little loss of spirit if the following directions are followed: Put broken pieces of glass into the percolator to the depth of about an inch, and then pack the ginger in layers of about 2 to 3 oz., pouring spirit over each layer sufficient to saturate the powder. The pieces of glass prevent choking, and packing the ginger in several layers enables the essence to pass through more rapidly, and the resulting essence is not diminished in strength. When the full quantity of essence is obtained the remaining weak essence or spirit might be driven out by water and retained for other than official purposes.

In the discussion which followed,

Mr. J. B. STEPHENSON said he had always taken considerable interest in the making of essences, and the essence of ginger was the most satisfactory example he knew of in the process of percolation. He had never used any but the Jamaica ginger, and he thought he detected a different flavour in the Cochin and African varieties.

Mr. LUNAN agreed with Mr. Glass that African ginger made the most pungent essence, but he doubted if it would be so aromatic as Jamaica ginger.

Mr. J. R. HILL said Mr. Glass's experiments had pretty well confirmed the results of previous experimenters. It was alleged that African ginger had a harsh flavour as compared with Jamaica ginger, but Mr. Glass had shown that the difference was not so very pronounced as to be taken into account in its practical use for flavouring-purposes. He did not think there was any reason for excluding African ginger as first-class pharmacies did. He thought that was rather keeping up old tradition than selecting the finest variety for pharmaceutical purposes.

Mr. GLASS briefly replied.

Mr. I. W. THOMSON then read a note on

A SAMPLE OF SCAMMONY.

He said that some time ago a parcel was handed to him marked "Scammonium," accompanied by a statement that it contained 84.864 per cent. of scammonin, and that there might be no mistake, gave the chemical formula which is generally accepted as representing that body. It was said to be a German article. A very cursory examination of the sample so completely belied its certificate of character that he concluded it could hardly claim more than a very remote relationship with scammonium. The substance was in irregular pieces, apparently portions of a cake about $\frac{1}{2}$ inch thick, broken up, blackish, hard and horny, breaking with a resinous fracture, and very difficult to powder. On submitting it to systematic examination the following results were obtained:—

	Per cent.
Soluble in ether	0.4
Soluble in spirit	2
Soluble in water	42.6
Starch and cellular tissue	43
Moisture	12
	100

The ash contained potash, magnesia, lime, iron, and silica in combination with sulphuric acid, with traces of hydrochloric acid. Germans must think us very gullible in trying to foist upon us such an article as this for scammonium.

Mr. RUTHERFORD HILL, who had also examined a sample, corroborated Mr. Thomson's results. The ether extract seemed to contain a small quantity of fixed oil. When dissolved in caustic-potash solution it was reprecipitated on the addition of hydrochloric acid, and this fact seemed to indicate that whatever the resin was, it was not scammonin. The alcohol extract was not resinous. The portion soluble in water consisted chiefly, if not entirely, of gum arabic. The insoluble portion consisted of wheaten starch. The sample had a faint aromatic odour, resembling that of genuine scammony.

Mr. COWIE spoke of having found copper and lead in two samples of scammony.

This was all the business.

GLASGOW AND WEST OF SCOTLAND PHARMACEUTICAL ASSOCIATION.

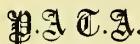
At the meeting held on March 4 Mr. D. WATSON gave an instructive lecture on the Röntgen rays, illustrated by lantern-views, and a demonstration with an apparatus provided by Messrs. Baird & Tatlock.

BRADFORD AND DISTRICT CHEMISTS' ASSOCIATION.

A LECTURE on "Chemists and their Discoveries" was delivered on March 16 by Mr. Haller, of Bradford. The lecturer sketched the lives and work of Bacon, Boyle, Priestley, Lavoisier, Sir H. Davy, Scheele, Faraday, and Graham. He was warmly applauded and thanked.

MIDLAND PHARMACEUTICAL ASSOCIATION.

A CAPITAL programme was presented on Tuesday evening at the smoking-concert of this Association held at the Colonnade Hotel. The President (Mr. F. J. Gibson, Wolverhampton) was in the chair, and there was a fairly numerous gathering. The artists were all professionals.



COUNCIL ELECTION.

MEETINGS of manufacturers' and wholesalers' sections were held on Wednesday, March 10, to elect representatives to the Council. Result:—

Manufacturers—Messrs. M. Beetham, Cheltenham, J. E. Garratt (Frog-in-your-throat), W. A. Gilligan (Liebig's Extract of Meat Company), H. J. Hall (Stephen Smith & Co.), H. S. Norris (Condal Water Company, Limited), Thos. Powell (Limited), Vitalia Company, W. Lambert & Co. (Chas. Sanger), and J. Shorrock (Bovril, Limited).

Wholesalers—Messrs. Barclay & Sons (Limited); Bleasdale (Limited), York; Butler & Crispe, London; Evans, Gadd & Co., Exeter; Hirst, Brooke & Hirst, Leeds; S. Maw, Son & Thompson, London; Morris & Jones, Liverpool; John Sanger & Sons, London; W. Sutton & Co., London; Jas. Wooley, Sons & Co., Manchester.

Retail Section—The voting-papers for the election of this section were counted by Mr. G. R. Barclay and Mr. W. W. Goodall, chemist, Fulham Road, with the result that the following ten gentlemen were elected:—

W. Jones, Birmingham ..	774	A. Cooper, South Kensington ..	688
J. Cocks, Stonehouse ..	751	W. R. Barnes, Upton Manor ..	644
S. N. Pickard, Bradford ..	737	T. P. Garrett, Newport ..	613
H. W. Seely, Halifax ..	718	F. Rowsell, Exeter ..	561
J. Williams, Manchester ..	707	T. S. Wokes, Liverpool ..	553

The first eight were members of the retiring Council.*

The first meeting of the new Council will be held on March 31 at Anderton's Hotel, Fleet Street, at 12 noon.

The annual meeting will follow at the same place, at 3 P.M. on the same day.

Additions to Protected List:—

Allcock's plasters	Ambrosia
Aston's sovereign embrocation,	Dun's capsules
7½d. (new size)	ice-ree coca-wine

Westminster Wisdom.

BILLS POSTPONED.

The 12 o'clock rule was on Tuesday suspended in favour of the Voluntary Schools Bill. This extinguished any chance of the second reading of Sir Stafford Northcote's Registration of Firms Bill, which was down for Wednesday, and of Mr. Kearley's Sale of Food and Drugs Bill on Thursday.

* The Secretary of the P.A.T.A. has not supplied us with the names of, nor the votes recorded for, the unsuccessful candidates.

MERCHANDISE MARKS COMMITTEE.

Sir James Fergusson, a former Postmaster-General, has been elected Chairman of the Select Committee on Merchandise Marks. Mr. Jonathan Samuel (Stockton-on-Tees) has been appointed on the Committee, in place of Mr. William Jones (Carnarvon), who declines.

PARIS INTERNATIONAL EXHIBITION.

Sir Stafford Northcote will on Monday ask the Under-Secretary for Foreign Affairs if he can state the amount of money proposed to be granted by German Governments towards the cost of German exhibits at the Paris International Exhibition in 1900. His object is probably to stimulate the interest of the British Government in the same direction.

VIVISECTION.

Mr. Swift MacNeill (co. Donegal) has put several questions to the Home Secretary on the subject of vivisection, with the object of showing that the law is not rigidly enforced. The return for 1895 states that the number of experiments performed on living animals in the United Kingdom amounted to 4,679. Mr. MacNeill wished to know whether the term "experiment," as used in this return, means the whole series of experiments carried out in a particular research, and whether it was a fact that 200 or 300 animals were at times used in a single experiment, while 80 or 90 was a common number? According to the Home Secretary, Mr. MacNeill's suggestion is based on a misapprehension. The number of animals used does not exceed the number of experiments given in the return, and, in fact, was rather less.

SOMERSET HOUSE AND THE PUBLIC ANALYSTS.

The Hon. Massey Mainwaring, M.P., intends to ask the President of the Local Government Board some questions concerning the standard of pure milk, and whether metropolitan magistrates are bound by the certificates of Somerset House. Mr. Kear Colwell, public analyst of Clerkenwell, Holborn, &c., is the instigator of the questions, and his trouble is that he certified a certain milk to be 10 per cent. deficient in natural fat, according to the standard of the Society of Public Analysts; but the vendor of that milk (who was summoned) sent his portion of the sample to the Government Laboratory at Somerset House, and the reply was:—"The proportion of fat present in the sample is low; but from the results of the examination we are of opinion that the milk does not afford conclusive evidence that a portion of the natural fat has been abstracted." The Magistrate accepted the Somerset House certificate, and gave 1*l.* 11*s.* 6*d.* costs against the Vestry.

INTERNATIONAL POSTAGE—LETTERS AND SAMPLES.

Mr. Henniker Heaton, the champion of increased facilities for foreign and colonial postage, put a series of questions the other day to the Government, with but small result. According to the hon. member there is an urgent and increasing demand for means of prepaying the postage on replies to letters of inquiry sent to British colonies and foreign countries, and of remitting the price of newspapers or samples and articles generally of small cost. As inland United Kingdom stamps can be obtained in small quantities at various post-offices in the colonies for transmission to England, Mr. Heaton asked if the Postmaster-General would consider the expediency of opening offices in this country at which colonial and foreign stamps might be sold to a limited amount for transmission to the colonies and foreign countries, or be received in exchange for stamps of the United Kingdom, at a small profit in either case to the Post Office? At the same time he inquired whether any solution of the difficulty alleged to exist in connection with the institution of a common international stamp had yet been devised. Mr. Hanbury, in reply, said they were not aware that any demand of the kind indicated existed, and would not, therefore, feel justified in making the arrangements suggested. Nor were they aware that any solution had yet been devised of the difficulty attending the institution of a common international stamp.

THE following notice appears on Mr. O'Flanagan's shop-door:—"Gone out for ten minutes; be back in five minutes."

Legal Reports.

THE PHARMACY ACT.

PROSECUTIONS IN SCOTLAND.

In the Airdrie Sheriff Court on Monday, March 15—Sheriff Mair on the bench—five young men, assistants in doctors' drug-shops in Airdrie and Coatbridge, were prosecuted, at the instance of Mr. Richard Bremridge, Registrar to the Pharmaceutical Society, with offences against the Pharmacy Act. Mr. Robert Watt, solicitor, Dean of Faculty, prosecuted on behalf of the Pharmaceutical Society. The respondents, whose cases were all disposed of together, were defended by Mr. Orr and Mr. Russell, solicitors, Airdrie.

The complaints charged the respondents with contraventions of the first and fifteenth sections of the Pharmacy Act, 1868, by selling poisons while they were not duly registered as pharmaceutical chemists or chemists and druggists.

David McIlwraith admitted having on November 4 last, in the shop at 141 Graham Street, Airdrie, sold to Joseph Tait, of Edinburgh, a quantity of laudanum, and to Alexander Spence, Linlithgow (1), a quantity of belladonna, which formed an ingredient in a belladonna-plaster, and (2) a quantity of opium, which formed an ingredient in a bottle of Bow's liniment.

David Ogilvie, assistant in the drug-shop at 128 Bank Street, Coatbridge, was accused of illegally selling to Alexander Spence, on November 21, a quantity of morphine, which, when sold, formed an ingredient in a bottle of Budden's balsam of aniseed.

Peter Fenton, assistant in a drug-shop at 13 Bank Street, Coatbridge, was charged with having sold to Joseph Tait, on November 4, a quantity of laudanum.

Thomas Whiteford, assistant in a doctor's shop at 90 Main Street, Coatbridge, was charged with having sold to Alexander Spence, on November 4, a quantity of laudanum, and, on November 21, to Joseph Tait a quantity of chloroform, a quantity of prussic acid, and a quantity of morphine, being ingredients in a bottle of white chlorodyne cough-mixture.

The fifth case was against Hugh Barclay, assistant in a doctor's shop at 50 Bank Street, Coatbridge, who was charged with having sold a quantity of laudanum on November 4, and a quantity of morphine, forming an ingredient in a bottle of Powell's balsam of aniseed, on November 21.

All five respondents pleaded guilty.

The Dean of Faculty, on behalf of the Pharmaceutical Society, said these proceedings were instituted by the Society entirely for the protection and safety of the public.

Sheriff Mair: Where is that stated?

The Dean of Faculty: I am quoting what was stated in cases brought before the Court some few years ago.

The Sheriff: You say these cases are instituted for the protection of the public. Was that observation made by some of the judges?

The Dean of Faculty: No, no. It was a statement made when the cases were brought before the Court.

Mr. Russell: It is only the statement of the prosecutor.

The Dean of Faculty: The preamble of the Act shows that clearly enough.

The Sheriff: I want to know whether the preamble ever received the sanction of any judge?

The Dean of Faculty then read the sections of the Act of Parliament under which the offences were charged, to show that the Society had authority for prosecuting unregistered sellers of poison, in the interest and for the protection of the public, and pointed out that the cases before them were brought up by the Society for the protection of the public, and with no other motive. He understood, he said, that the Medical Society themselves were very much against those parties having shops selling poisons against the Act of Parliament. The prosecutors sought no vindictive penalty; but they had been put to a great deal of expense, and they wanted to be indemnified for expenses incurred. There was a case last week in Hamilton where the penalty was 3*l.* and 2*14s. 4d.* expenses.

Mr. Orr said he was inclined to doubt the statement that the Society was acting in no vindictive spirit. The Act had been in existence for thirty years, and this was the first prosecution raised in Coatbridge. During all that time the

business had been conducted in Coatbridge in exactly the same manner as now. His own opinion was that the Act was not meant to cover such cases as these, but, unfortunately, that view had not been taken by more eminent authorities in Scotland. But though his clients had therefore resolved to plead guilty they did not know whether they were guilty or not. They were young men, and they could not afford to conduct an expensive defence. All the offences took place on November 4 or 21 last. It was a shame for any society to hold a charge like this up their sleeve for nearly six months, and when it suited their convenience to pounce down. It might be that the Society were within their rights, but it was grossly unfair that these lads should not have been informed either at the time the offence was alleged to have been committed, or immediately after, that they were to be charged. How were they to obtain proof now to rebut the evidence of the professional witnesses? Possibly the doctor might have been in the back shop when the sales took place in some of these cases. But this could not now be proved. There was no intimation on the label of what the balsam of aniseed contained, and these lads could not know they were selling poison. He asked his Lordship to inflict the most nominal penalty he could. The respondents were apprentices, and they must learn their trade in some way. They had no other opportunity of learning their trade in Coatbridge than on the premises of a doctor, as there was only one qualified chemist in the town, and even he did not conduct his business himself.

Mr. Russell also addressed his Lordship on behalf of the respondents. He said when he saw assistants of qualified chemists brought up and tried for these offences, then he should believe that it was only for the public interest these prosecutions were raised, and not for the interests of this close corporation. The chemist could not be always behind his counter any more than the doctor. It was the fact that this offence was permitted more readily in the shops of pharmaceutical chemists and duly qualified men than it was in any doctor's premises.

The Dean of Faculty did not admit the statements made by Messrs. Orr and Russell. He had had prosecutions before his Lordship prior to the present cases. As regards the complaint that the bottle of balsam of aniseed was not labelled "Poison," he put in the bottle referred to in the complaint to show that the word "Poison" was upon the label.

Mr. Orr: I will give you another one where there is no "Poison" labelled.

Sheriff Mair, in giving judgment, said: I am not entitled in dealing with these cases—in one view at all events—to express my own opinion as to the policy of these Pharmacy Acts. If it were not that I, sitting here as a Sheriff, might be considered presumptuous, I would have very little hesitation in condemning these Acts. I am also perfectly warranted in saying that, but for the decisions in the Supreme Court in Scotland and in England, I would have had great difficulty in holding that the parties now charged fall under that Act at all. The section of the Act of 1868, under which the prosecutions are brought, provides that "any person who shall sell or keep open shop for the retailing or dispensing or compounding of poisons," and so on, "shall be guilty of an offence." That is to say, any person not duly qualified. But one could easily see the possibility of holding that section of the Act was not intended to apply to assistants employed in a shop at all, but was directed against the person to whom the shop belonged—registered pharmaceutical chemist or chemist and druggist. And I cannot help expressing my surprise that while it is notorious that in all the cases before me the parties keeping open shop are duly qualified, those parties' assistants should be selected for punishment under these Acts. It seems very strange to me also that, as has been remarked by Mr. Orr, since 1868—well on to thirty years—although in those shops in Coatbridge conducted by duly qualified persons, persons not so qualified have been employed as assistants in them, not a single prosecution has been brought till now. I cannot help having my suspicion that, instead of these prosecutions being for the public interest, some private interest is involved of which we know nothing. It is still more remarkable that Coatbridge and Airdrie should have been selected as the hunting-ground for these prosecutions. I ask the prosecutor here—and if he can give me an answer

I shall be happy to receive it—what has been done in the large city of Glasgow? or what has he done in Edinburgh, in Dundee, in Paisley? I have yet to learn that prosecutions have been taken against the large wholesale and retail druggists' shops there.

The Dean of Faculty: There have been several prosecutions in other places.

The Sheriff: May I ask, Mr. Hill, if there have been any prosecutions against the Apothecaries' Hall in Virginia Street, or the Apothecaries' Hall in Glasfurd Street, Glasgow, and in these places it is a notorious fact that there are a number of assistants employed? Why select Coatbridge and Airdrie, unless it is in the interest of a private individual?

The Dean of Faculty: They never proceed unless they get information and a request to proceed. (Laughter.)

The Sheriff: Quite so. But has Mr. Hill sent any men to detect these assistants? Mr. Hill may laugh, but I have a very strong suspicion that what I say is true: and to mark my sense of such conduct by the Pharmaceutical Society I shall only impose a very modified fine. The fine in each case is 2s. 6d. and 2s. 6d. of costs.

There was much applause in court when the Sheriff gave his judgment.

COUNTY COURT CASES.

A PATENT-MEDICINE VENDOR'S AFFAIRS.

In the City of London Court, on March 12, before Mr. Julian Robins, Deputy-Judge, Mr. Leonio Thomasso, said to be a specialist in deafness, at Stockwell Road, was summoned by a Mr. Christian for 8l. 12s. for advertisements inserted. The plaintiff said that defendant paid a rent of 50l. or more. He was also a patent-medicine vendor. The Deputy-Judge said that that was not evidence that a man had money. The Plaintiff: He keeps a servant and drives about in a trap. He has a manager in his shop at Westminster Bridge Road. The Deputy-Judge: If the manager will come here and tell me what the defendant earns by his patent medicines I will consider it. The case was adjourned.

COMMISSIONER KERR AND IMPRISONMENT FOR DEBT.

In the City of London Court on Tuesday, before Mr. Commissioner Kerr, the Continental Bottle Company, Billiter Square Buildings, E.C., sought to have Dr. George Hunstone, Bath Lodge, Lodge Road, Regent's Park, committed to Holloway Gaol for the non-payment of the sum of 5l. 2s. 3d. for bottles supplied to him in the way of trade. The defendant's manservant said that his master was ill and could not collect his accounts. The plaintiffs' representative said that the defendant had a good business. Mr. Commissioner Kerr: Put in an execution. The plaintiffs' representative said that had been done. The goods were claimed by the defendant's daughter. Mr. Commissioner Kerr: That won't do. Try the question. The plaintiffs' representative said that in addition to the defendant's business as a surgeon he had told witness that he was the proprietor of an anti-microbe inhalation. Witness asked the defendant whether it was a good thing, and the doctor told him that he hoped to make his fortune out of it. The defendant also said that he was expecting 100l. then. Mr. Commissioner Kerr said he could not act upon beliefs. The Plaintiffs' Representative: He has means, but he will not pay unless these extreme measures are enforced. Mr. Commissioner Kerr: That would be imprisonment for debt, which the Legislature has abolished. You can have a receiver appointed to take over this anti-microbe if you like. There is no evidence of the defendant's means at all. No order was made.

SALE OF FOOD AND DRUGS ACT.

SAFFRON.

GEORGE IMESON, of 172 Caledonian Road, was summoned last week at the Clerkenwell Police Court by the Islington Vestry, for selling, on January 30, saffron containing 36 per cent. of barium sulphate. Mr. Bramall prosecuted, and Mr. Moore defended. Mr. Bramall said saffron was made from crocuses, a vegetable product, and consequently light. Barium sulphate was a mineral product, and heavy. Saffron

cost about 60s. per lb. Sixpennyworth was purchased from the defendant's shop, and upon analysis by Dr. Teed it was found to contain 36 per cent. of barium sulphate. Mr. Moore, for the defence, said his client purchased 1 oz. of the saffron from a firm of wholesale chemists. His client was not a chemist, but a tobacconist, who sold also patent medicines. Mr. Bros said he would be satisfied if the defendant would pay 31s. 6d. costs.

GLYCERINE AND LIME-JUICE.

At Brentford Police Court on March 13, before Mr. Montagu Sharpe (Chairman), Mr. J. Allen Brown, and other justices, William Leighton, chemist and druggist, of Hanwell, Middlesex, was summoned by Walter Tyler, a local inspector, for having sold a bottle of glycerine and lime-juice not of the nature, substance, and quality demanded.

Mr. W. A. Davis, solicitor, appeared to defend.

The evidence showed that the sample was taken in the ordinary way, but the defendant declined to have it divided. A moiety was sent to the public analyst, who certified as follows: "I am of opinion it contains no glycerine. The sample has undergone no change that will interfere with analysis."

It was urged for the prosecution that this was a drug, glycerine being mentioned in the British Pharmacopoeia. Further, it was pointed out as a fact that very little of the so-called glycerine and lime-juice contained glycerine.

Mr. Davis, for the defence, submitted that there was glycerine in the compound. The certificate of the analyst should have set out the actual parts and ingredients, which would have materially helped the defence. His client prepared the compound himself, and used the ingredients, which, in themselves, would create glycerine. He had done all he could do, and if the drugs failed to do what they should do, he could not be held responsible.

Mr. Edward Bevan, official analyst to the county, who gave the certificate in the case, examined for the defence, stated that he did not make an analysis with a view of finding out the component parts of the sample; he examined it for the purpose of finding out what it did not contain. It contained olive oil, and, he thought, alkali as well.

Mr. Davis: And is it not a chemical fact that when mineral oil is mixed with alkali it forms glycerine?—It depends upon the way in which you mix them and treat them.

Mr. Davis: Will not alkali fetch glycerine out of oil?—No; it would want treating with caustic soda.

Mr. Davis: It cannot be formed with it?—No.

Mr. Davis: If saponification takes place it might be formed?—Yes.

Mr. Davis: Will you say whether it did or did not take place?—No.

The Chairman: As a fact, there may be the materials to produce it, but it had not taken place?—Exactly.

The Chairman: Every chemist should see that it takes place, not leave it to chance.

Mr. Davis replied in that event he would have to open the bottle again and test for himself. That would be impossible.

The Chairman: I am not a chemist; but to my mind nothing should be left to chance.

Mr. Allen Brown: Under the most favourable circumstances would olive oil and alkali produce a sufficient quantity of glycerine to satisfy you?—No.

Mr. Davis: You have examined many samples; has the result always been the same?—Yes. I have found none containing glycerine.

Inspector Tyler: Are you sure you heard the question rightly. You say you never found glycerine in this compound?

Mr. Bevan: With the exception of one sample, in which there might have been a little glycerine.

The Chairman: Why not put glycerine in it?

Mr. Davis: I am not a chemist. I cannot answer you.

The Chairman: There must be a conviction. It is the first case of its kind, and we hope manufacturers will be more careful. The fine will be 20s. and costs.

At the Spelthorne Petty Sessions, held at Sunbury-on-Thames on Monday, Mr. Thomas Mann, chemist, Park

Terrace, Hampton Hill, was sued for selling to Walter Tyler, inspector, some glycerine and lime-juice which, according to the certificate of the public analyst, contained no glycerine.

The Defendant: I have proof that the drug contained both glycerine and lime-juice.

The Chairman: The county analyst says there is no glycerine.

Defendant said that the drug had been manufactured by a gentleman in Manchester for Messrs. Newbery. The former had sent a sworn declaration (produced) to the effect that the article contained both glycerine and lime-juice.

Inspector Tyler: I submit that that statement cannot be accepted as evidence, because the writer is not here to be cross-examined.

The Bench concurred.

Mr. Mann said analysts sometimes differed, and any practical chemist on seeing this drug would know that it contained glycerine, and that it was mixed up with lime-juice, because the citric acid turned it into a creamy substance.

Subsequently, Mr. Mann said he should send the sample to Somerset House to be analysed. He must pay the guinea, for he could not submit to a conviction under the present circumstances.

On that understanding the case was adjourned until Monday week at Teddington, the Spelthorne Petty Sessions being held there every three weeks.

WATERED GLYCERINE.

AT Castle Eden Petty Sessions, on March 13, Joseph Luxmore, grocer, &c., of Wingate, was charged with selling glycerine containing 13 per cent. of water in excess. The case had been adjourned from a previous sitting.

Mr. Scott Elder, chief inspector under the Food and Drugs Act, briefly reviewed the evidence already given, which was to the effect that his assistant bought half-a-dozen penny bottles of glycerine at Luxmore's shop, and that the analyst certified that the glycerine sold contained 13 per cent. of water in excess. Mr. Elder added that this glycerine was being sold at twice the cost of ordinary glycerine. It was the wholesale people they were dealing with. Therefore he asked that a substantial penalty should be imposed.

Mrs. Luxmore gave formal evidence in defence, and in cross-examination admitted that the wholesale people had given her a guarantee to pay all her costs.

A fine of 3*l.* and 2*l.* 2*s.* costs was imposed.

SPT. AETHER. NITROS.

AT Deal, on March 11, Mr. George Head, chemist and druggist, 86 High Street, Deal, was summoned for selling 4 oz. of spirit of nitrous ether, B.P., certified to contain only 1 per cent. of nitrous ether, instead of 2 per cent. as required by the B.P. Mr. R. Wilks appeared for the defendant, who pleaded not guilty. Superintendent Chaney gave evidence of the purchase and produced the certificate. He bought other articles, which were found to be pure. The analyst was not present. Mr. Wilks said his client had had an analysis made of the remaining one-third, and the result was different. Mr. Head said that previous to taking the business at Deal he was six years with Messrs. Savory & Moore. The article in question he served from a 40-oz. bottle. Spirit of nitrous ether was very volatile. He now obtained the spirit in 1-lb. bottles to prevent it deteriorating so much. Every time the bottle was opened some of the gas escaped. The case was dismissed.

THE POISONED FLESH ACT.

JOSEPH DARBY, gardener, was fined 20*s.* and costs at Brentford last week for unlawfully laying certain meat mixed with poison on certain land. Mr. Henry Peake, chemist, Twickenham, proved selling a vermin-killer to the defendant.

DENTISTRY PROSECUTION IN EDINBURGH.

At the Edinburgh Sheriff Court on Thursday, March 11, Thomas Tennant Black, 11 Marchmont Road, Edinburgh, again appeared to answer to a complaint at the instance of

Wm. Bromfield Paterson, L.D.S., F.R.C.S.E., Secretary of the British Dental Association, London, with the concurrence of the Procurator-Fiscal, for infringement of the Dentists Act, 1878, by distributing cards with his name, place of business, and scale of charges printed thereon, and also by having above the door of his premises a glass globe with the words "Dental Office" thereon. At the last sitting respondent pleaded not guilty, but on Thursday his agent stated to Sheriff Orphoot that he had advised his client to withdraw that plea and plead guilty. The case against Emslie, which had been disposed of at the former diet, was to be appealed to a higher Court, and it had been arranged with the Procurator-Fiscal that in the event of Emslie being successful in his appeal any fine which his Lordship might impose on Mr. Black would be refunded. He further stated that Mr. Black had ceased to use the cards, and had removed the glass globe. Sheriff Orphoot fined the respondent 3*l.* 3*s.*, with 2*l.* 2*s.* of expenses—the same penalty as in the case which has been appealed.

AN ANILINE-DYE CASE.

FARBWERKE MUHLHEIM VORM. A LEONHARDT & Co. v. THE HOLLINGWORTH COAL-TAR COMPANY.

IN the Chancery Division on March 12, before Mr. Justice Romer, Mr. O'Leigh Clare said he had to apply for a consent order. The action was for the infringement of a patent with regard to aniline dyes. The defendants had agreed to terms. They had admitted that they had infringed, and they had agreed to an order granting an injunction and giving the plaintiffs an inquiry as to profits. They had also agreed to pay the plaintiffs on all the goods they had sold 3*s.* per lb. and to pay the costs, and they would give the plaintiffs certain discovery with regard to persons from whom they had bought and to whom they had sold, and generally assist the plaintiffs.

Mr. Justice Romer: You can take your order.

Bankruptcies and Failures.

Re JNO. THOS. JONES, 51 Buttermarket Street, Warrington, Lancs, Wholesale Druggist.

THE accounts under this recent failure show liabilities to unsecured creditors 25*l.* 2*s.* 10*d.*, and assets, consisting of trade fixtures, &c., 1*l.*; furniture, 2*l.*; book-debts, estimated to produce 14*l.* 9*s.*, less 7*l.* 10*s.* for preferential claims, which leaves a net deficiency of 24*l.* 3*s.* 10*d.* Causes of failure, as alleged by debtor:—"Want of capital; bad trade; ill-health of my wife, who has been laid up for two years." The debtor states he has been in business since 1885—after March, 1891, alone. In March, 1891, he had a capital of 40*l.* He cannot make out a deficiency account, not having kept any cash-book or creditors' ledger. He believes his wife's illness has cost him 50*l.*, law costs have amounted to 50*l.*, and bad debts to 6*l.* 5*s.* 8*d.* The balance of his deficiency represents household and personal expenditure in excess of profits. He first knew of his insolvency "about Christmas, 1895," and has contracted a number of debts since that time which are still owing. The following are creditors:—

	£ s. d.
Clay, Dod & Co., Liverpool	18 0 0
Evans, Sons & Co., Liverpool	17 0 0
Hatton, Jno., Warrington	10 0 0
Sumner & Co., Liverpool	10 14 11
Wyleys (Limited), Coventry	17 12 10

Re M. R. JONES, 38 Alfred Place, W., Company Manager.

THIS debtor who (as already reported) came to London from America in 1895 to push a digestive ferment called Peptenzyme patented by a friend in America, passed his public examination in the London Bankruptcy Court on March 11. He had up to the present been manager of the London branch at a salary of 8*l.* per week. The business was now about to be sold, and in all probability he would then be out of it. His insolvency was caused by his having endorsed a bill for the accommodation of an American friend

who went away. He denied that he came to England to avoid American creditors.

Re MOSES ENGLAND, St. Peter's, late Chemist and Druggist.

At the Canterbury Bankruptcy Court on March 12, Moses England, described as an agent, of Marriott Villa, St. Peter's, Isle of Thanet, and formerly a chemist and druggist of Great Mongeham, came up for examination. The liabilities amount to 165*l.* 14*s.* 3*d.* and the deficiency works out at 106*l.* 4*s.* 3*d.* The debtor attributes his insolvency to a loss of 30*l.* by bad debts; payment of past debts, loss by selling articles under value to meet pressing engagements, and illness of children. Only one or two formal questions were asked and the examination was declared closed.

Re G. T. ARCHIBALD, Workington, Chemist and Druggist.

On March 12, at Cockermouth, before Mr. E. L. Waugh, Registrar, this debtor appeared for public examination. The receiving-order was made on February 10, 1896, and soon afterwards debtor went to Australia. His statement of affairs, lodged on his return, showed liabilities expected to rank of 840*l.* 19*s.* 1*d.*, and the assets, after providing for preferential debts, realised 61*l.* 12*s.* 3*d.* The causes of failure were stated to be depreciation in value of mortgaged property, depression in trade, large family to maintain, and family sickness. In reply to the Official Receiver, debtor said he made up his mind to go to Australia when he knew that the solicitor would not accept his offer that the creditors should take over the property with the mortgage-debt, and pay interest and arrears. The solicitor was acting for the mortgagees. He left a letter behind to be posted, informing the Official Receiver that he was leaving. He did not remember whether he left the letter at home or with Mr. Milburn to post. He then received money to go away from a friend who lent him 50*l.* on a promissory-note. He had a very good offer, he thought, from a relative named Herbert, of Newcastle, N.S.W. The business was a jam and sauce manufactory. He had not yet repaid the 50*l.* It was not included in the statement of affairs, because he did not want to put it in. He was sorry that he did not inform the Official Receiver that he had returned. The news of his return was, however, in a local paper. His outward passage cost 8*l.* 8*s.*, and he gave his wife 25*l.* of the 50*l.* lent him. When he got back he travelled for the Beehive Co-operative Society, Workington, until he was arrested.

The examination was adjourned for the signing of the note.

Re D. MUNRO, SONS & CO., 72 Leadenhall Street, E.C., Chemical Commission Agents.

At the London Bankruptcy Court, on March 12, Donald Munro, trading under the above style, applied to pass his public examination upon accounts showing debts 366*l.* 5*s.* 3*d.*, and assets *nil*.

In the course of his evidence, the bankrupt stated that he commenced business in 1865, as a packer of chemicals, at Osborn Street, Spitalfields. He sold that business, and in 1870 commenced dealing in oil-barrels, having an office at City Chambers, Fenchurch Street, and works at Bethnal Green. The works were destroyed by fire in 1877, but he rebuilt and sold them for 5,000*l.* Payment was made in bills, which were not met, and in 1879 he was made bankrupt. From then to 1891 he acted as a commission agent in chemicals; but then started a meat-preserving business at Kender Street, New Cross, under the style of Palmer & Co. That business was formed into a limited company in 1893, and witness acted as manager until it was voluntarily wound up in 1895. Since then he had been acting as a chemical commission agent.

The examination was concluded.

Re FREDERICK MASON, Acre Lane, Brixton, Manufacturer of Meat-essence.

THIS bankrupt attended before Mr. Registrar Brougham at the London Bankruptcy Court, on March 12, for public examination upon accounts showing liabilities 12,156*l.* 6*s.*,

and assets 3,102*l.* 5*s.* 3*d.* Questioned by the Official Receiver the bankrupt said he had been financed throughout by his wife, who was now a creditor for over 9,000*l.* He was just about solvent when he commenced in November, 1893, and had for many years before been engaged in a similar class of business, so that he was not without good experience. Being a new concern it was essential to advertise largely. In the first year he spent between 2,000*l.* and 3,000*l.* in that way, and in the following year he expended between 3,000*l.* and 4,000*l.* The advertisements produced some results, as in 1894 there was a turnover of 4,000*l.*, and in 1895 5,000*l.* No net profit, however, was made in those two years, and the only balance-sheet that was prepared in 1894 showed a loss. Asked what justification he had in continuing a business which was resulting in a loss, the bankrupt said he did so in the hope of transferring it to a syndicate, which by providing further capital could carry it to a successful issue. The witness admitted that he had occasionally had a bet on horse-racing. His losses, however, did not exceed 100*l.* There was no opposition on the part of creditors, and the examination was ordered to be concluded.

Re FRANK HENRY SAUL, 124 Walford Road, Sparkbrook, Birmingham, carrying on business under the style of Saul & Co., at 31 High Street, Crewe, as a Patent-medicine Vendor.

A FIRST meeting of creditors in this failure was held on Wednesday at the office of the Birmingham Official Receiver. Bankrupt's liabilities amount to 485*l.* 14*s.* 8*d.*, and his assets are estimated to realise 153*l.* 6*s.* 8*d.*, the chief item being stock-in-trade (130*l.*). The following are among the proofs lodged:—

	£ s. d.
Cohen, J. & M.	18 3 10
Coleman & Co. (Limited)	11 1 0
Goodall, Backhouse & Co.	99 17 1
Grossmith, Son & Co.	14 13 2
Lloyd, T. Howard, & Co.	55 12 6
Jeyes' Sanitary Company (Limited)	5 11 11

The bankrupt, who was previously engaged as a clerk, commenced business in February, 1885, at 2 High Street, Crewe, under the style of Saul & Co., as a patent-medicine vendor. He was without capital, and borrowed 114*l.* from his father, which was still owing. In 1888 the bankrupt opened a branch shop at West Street, Crewe, but only carried it on for three months. In 1891 he left the management of his shop to an assistant, and accepted a situation as a traveller. Two years ago he removed to Birmingham, and commenced to trade as a commission-agent. Last year he again opened a branch in Crewe, but it was unsuccessful, and he discontinued it at the end of six months. Owing to the fact that he is not a registered chemist, he has been unable since 1895 to sell certain patent medicines, and since then the takings have fallen away, and the insolvency is attributed to that circumstance and to competition.

Gazette.

PARTNERSHIP DISSOLVED.

Buckley, J. J., and Buckley, G. P., under the style of Buckley & Co., Earl's Court Road, S.W., chemists.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATIONS.

Dungate, Charles Egbert, South Bank, Yorkshire, druggist. Plattin, Henry Ramm, Fakenham, chemist and druggist.

Deeds of Arrangement.

Patrick, Herbert Waring, Rushden, chemist. Trustee, Augustin C. Palmer, Northampton, chartered accountant. Dated, March 10; filed, March 16. Unsecured liabilities, 363*l.* 10*s.* 8*d.*; estimated net assets, 144*l.* Composition of 7*s.* 6*d.* in the pound, payable by two equal in-

stalments at six and nine months from date hereof, secured by an assignment. The following are scheduled as creditors:—

		£ s. d.
Bourne, Johnson & Latimer, London	.. .. ..	41 6 5
Barron, Harvey & Co., London	.. .. ..	24 14 8
Brown, Lucy, Rushden	.. .. ..	13 15 0
Evans, Lescuer & Webb, London	.. .. ..	25 5 10
Hill, C. S., Northampton	.. .. ..	16 10 0
Hodgkinson, Treacher & Clarke, London	.. .. ..	16 16 10
Idris & Co. (Limited), London	.. .. ..	13 3 11
Michealson, H., Northampton	.. .. ..	12 0 0
Nichols, A. T., Rushden	.. .. ..	23 18 9
Pilchers (Limited), London	.. .. ..	10 0 1
Sanger, J., & Sons, London	.. .. ..	19 14 8
Wilkinson, James F., Pendleton, Manchester	.. .. ..	10 8 8

Meerwein, Charles, trading as Charles Meerwein & Co., 12 Mark Lane, Produce merchant.

	£ s. d.
City of London Real Property Company, London	41 0 0
Dalton & Young, London	1,655 0 0
French & Plucknett, London	120 0 0
Hicks & Ashmore, London	10 0 0
Meerwein, Mrs. C., Basle	403 0 0
Meerwein, Miss F., Basle	403 0 0
Rolls & Son, London	125 0 0

Trade-Marks Applied for.

(From the "Trade Marks Journal," February 24, 1897.)

"**GILT EDGE**," and sketch of book; for medicated soap for human use. By Lever Bros. (Limited), Port Sunlight, near Birkenhead; soap-manufacturers. 199,891.

"**GILYO**"; for an ointment for human use. By Maria Clay, 28 York Street, Oldham, patent-medicine dealer. 201,344.

Sketch of covered waggon; for mineral and aerated waters, including gingerbeer. By Dreyfus & Co., 2 Jeffrey's Square, London, E.C. 200,801.

"**ATALANTA**"; for perfumery, toilet-articles, soap, &c. By E. Cook & Co., 10 Mark Lane, London, E.C. 200,847.

"**KERLIO**," and sketch of girl's head, with picture-hat, on label; for a preparation for curling the hair. By G. Elliott, trading as the Kerlio Company, 47 Westbury Street, Sunderland, clerk. 201,374. The essential particular is the sketch.

"**VALULE**"; for all goods included in Class 48, but not including preparations for the hair, &c. By Burroughs, Wellcome & Co., Snow Hill Buildings, London, E.C. 200,253.

(From the "Trade Marks Journal," March 3, 1897.)

"**SUN BRAND**"; for soda and its preparations included in Class 1. By A. Crawford & Co., 113 Fenchurch Street, E.C. 199,933.

"**PALINE**"; for disinfectants for all purposes, in form of fluid, powder or tablets, medicated soap for animals, ointment for veterinary use, insecticide, &c. By Burt, Boulton & Haywood, Prince Regent's Wharf, Silvertown, London; chemical manufacturers.

"**VIMULE**"; for medicated articles for human use. By A. Lambert & Co., 16 Dalston Lane, London, N.E. 201,426.

"**XAXA**"; for all goods in Class 42. By Burroughs, Wellcome & Co., Snow Hill Buildings, Holborn, London, E.C. 200,544.

Sketch of bullock and sheep in oval, for extract of meat. By Liebig's Extract of Meat Company (Limited), 9 Fenchurch Avenue, London, E.C. 200,551.

Device of anchor, with name and address of applicants; for bleaching powder. By The United Alkali Company (Limited), G11 Exchange Buildings, Liverpool. 197,353.

"**JUNIS**"; for a hair wash. By H. M. Nisbet & Co., Friars' House, Friars' Lane, Richmond, Surrey; manufacturers of proprietary articles. 200,990.

"**SUDOL**"; for polishing powder, paste or soap. By Burt, Boulton & Haywood, 64 Cannon Street, London, E.C. 201,180.

(From the "Trade Marks Journal," March 11, 1897.)

"**GUINEA DROPS**," and device of George III. guinea; for a medicine for human use. By D. Houldsworth, 28 Church Street, Manningham, Bradford, Yorks, hydropathic botanist. 200,968. Essential particular, the device.

Facsimile signature on label, with wording; for an embrocation for human use. By Joseland & Co., 33 Mill Street, Liverpool Road, Burslem, Staffs, wholesale druggists. 201,540. Essential particular, facsimile signature.

Device of harp with figurehead and the number "22"; for aniline dyes (mineral). By Pronk, Davis & Co., 22 Harp Lane, London, E.C. 201,461. Essential particular, the device.

Various label devices, with wording; for honey pills, powders, and cream, being medicinal preparations for human use. By G. Hollingworth, trading as G. Topall, 18 Pratt Street, Camden Town, London, herbalist. 199,295-97-8. Essential particulars, the devices.

"**CYNIN**"; for a food-preservative. By H. E. Slinn, 10 Northgate Street, Gloucester, chemist and druggist. 200,803.

"**PENARIS**"; for mineral, aerated waters, and ginger-beer. By J. B. Thwaites, 24 Southend Road, Penrith. 201,972

(From the "Trade Marks Journal," March 17, 1897.)

"**YAALA**"; for a medicinal preparation for human use. By J. M. Cred, 54 Margaret Street, Sydney, New South Wales, member of the Legislative Council. 200,865.

Facsimile signature and floral label, with girl holding bunch of lavender; for lavender-water. By John Jakson & Co., Mitcham, Surrey. 199,530. Essential particulars: device and signature.

"**ZENALINE**"; for a preparation for the hair. By Sefton Harvey, 5 Denman Street, London Bridge, London, S.E. 200,486.

Marriages.

AUBREY—BERESFORD.—On March 17, by special licence, Henry James Aubrey, conductor of the Apothecaries' Hall of Ireland, to Florence Lydia, younger daughter of James Beresford, of Sutton Coldfield, Warwickshire.

GRAY—CUMMING.—At Alvie Parish Church, on March 9, by the Rev. James Anderson, assisted by the Rev. Dr. Mackenzie, Kingussie, John Gray, chemist, Kingussie, to Mysie, daughter of the late William Cumming, Lynwilg.

SUTHERLAND—KENNEDY.—At 295 West Campbell Street, Glasgow, on March 11, by the Rev. John Robertson, City Temple, Alexander George Sutherland, chemist and druggist, formerly of Singapore, to Mary, daughter of the late Alexander Kennedy, schoolmaster, Plockton, Lochalsh, Ross-shire.

Deaths.

CUPIT.—On March 6, Mr. Alfred Cupit, chemist and druggist, New Brampton, near Chesterfield. Aged 70.

LAWES.—On March 1, Mr. John Laws, chemist and druggist, Church Street, Marylebone, N.W. Aged 84.

PRESTON.—On March 13, at Carson House, Church End, Finchley, Jane, wife of Joseph T. Preston, and mother of J. Classon Preston, of 81 Bishopsgate Street Without, E.C., in her 76th year.

WALL.—On March 8, Mr. W. F. Wall, son of the late Mr. W. J. Wall, chemist and druggist, at his residence Church Street, Lower Edmonton.

GOLD MEDALS 1884-1885-1886-1888.

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Kingzett's Sulphur Candles and Sulphugators,

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Preserved Peroxide of Hydrogen,
Mercuric Bactericide, Eucalyptus Oils.L. G. B. Corrosive Sublimate
Permanganate of Potash
Carbolic Acid Soluble Pellets.

"Oko" and "Oreocide" Fluids and Powders; Chloride of Zinc; Carbolic Fluids, Powders, Acid, and Soaps; Soluble Carbolated Creosote; Moth Paper; Weed Destroyer, Sheep Dips, &c.

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[2]

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"SOLEX KOLA is entitled to rank with the COCA SOLEX of which I have been speaking. Hitherto the principal drawback to the use of Kola has been its unpleasant earthy flavour. This defect is common to all Liquid Extracts of Kola, and cannot be disguised even in the aerated beverages made from them. In SOLEX KOLA, however, I find that MESSRS. FLETCHER, FLETCHER & CO. have completely mastered the difficulty."



EXAMINATION-FEES AND ADMINISTRATION EXPENSES.

THAT "the greater includes the less," nobody denies, but some people appear to have difficulty in accepting the axiom when pharmaceutical examinations are in question. It is proved that the examinations, as a whole, have paid the Pharmaceutical Society handsomely—have even contributed to the support of the Society's own functions; yet in official

quarters it is insisted that Minor candidates should pay something for registration, and we have even heard it claimed that they should be made to pay for bothering the examiners by going up unprepared. This, of course, they do. These are suggestions for remedying a condition of things which does not exist. There is a surplus from the examination-fees, after paying examiners' fees, &c., and half the administrative expenses of the Society. What matters it how the entrance-fee is described? The point is whether it is sufficient for all purposes.

The *Pharmaceutical Journal* put forward the Society's claim last week as follows:—

It is unreasonable that a minority of the members of the trade, because they choose to band themselves together voluntarily for the advancement of their calling, should be called upon to bear the expense attending the administration of the Pharmacy Act while the majority contribute nothing, though sharing equally the incidental benefits. And this fairly represents the position of affairs with respect to the registration of chemists and druggists and the administration of the Pharmacy Acts in the public interest. It may be contended then that the examination-fee should be sufficient to cover the cost of the examinations, of maintaining the register, and of providing ample means of meeting the cost of enforcing or supporting the Acts.

This kind of argument will have to be improved upon before the modified by-laws are submitted to the Privy Council. Our reply to the *P. J.* paragraph is the following table of income and expenditure compiled from the Society's financial statement for 1895:—

RECEIPTS.	EXPENDITURE.
	£ s. d.
Preliminary - examination fees	2,582 9 0
Minor-examination fees 5,713 1 0	
Modified - examination fee	1 1 0
Restoration and registration fees	40.19 0
	£ s. d.
Examiners' fees ..	2,009 4 3
" travelling-expenses ..	215 2 10
Examiners' refreshments	107 0 5
Apparatus, drags, printing, &c. ..	555 17 4
Fees to superintendents of First examination	243 17 0
Hire of rooms for First examination ..	83 0 0
College of Preceptors' fees	190 9 0
Death certificates ..	20 6 10
Whole of the law costs	771 1 4
Register cost	16 19 2
Half of house expenses	309 19 9
" North British Branch	344 3 1
Half of postage ..	108 4 2
" rent, taxes, &c. ..	395 17 1
" Registrar's and clerks' salaries ..	787 19 6
Half of stationery and office expenses ..	140 12 3
Half of Council expenses	274 0 9
	6,578 16 9
Showing profit ..	1,758 13 3
	£8,337 10 0

Nobody can allege that our provision for Pharmacy Act expenses is anything but lavish. It is, indeed, far more liberal than would be allowed if the administration of the Act were entrusted to a Government department.

The receipts from the Major examination (403*l.* 5*s.*) are not included in the table, although the charges for conducting the same are. The Major is beyond the legal qualification. Surely our table more than proves that the statutory examination and registration receipts are sufficient to "cover the cost of the examinations," "maintain the register," and "meet the cost of enforcing or supporting the Act."

We charge the whole of the law costs and register cost to

the examinations, thus allowing the Society to have its own legal advice and some hundreds of copies of the register for nothing. The half-charge of official expenses is the only point in the statement open to difference of opinion. But we cannot think that any competent judge would say we had not allowed enough. Considering that the examinations occupy not more than three weeks four times annually—that is, a quarter of a year—surely one-half of the administrative expenses is too much to debit them with. Also, it should be noted, three-fourths of the Society's house is used for non-examination business. Yet we allocate half the rent, house expenses, &c., to the examinations. So, too, half of the salaries must be more than ample recompense to the Society for the office labour incident to the examinations, register, and law cases. In 1895 the office had to deal with 2,934 examination candidates and 5,346 adherents of the Society, and the latter on the average would probably occasion more clerical labour per man than the former. And yet with these facts in its own pages, the official organ of the Society says:—

The registered chemist and druggist at present secures advantage at no cost to himself and furnishes nothing towards the expense of administering the protective sections of the Pharmacy Acts.

Some friendly critics in the Society who are taking the honourable course of looking closely into this matter have communicated with us on the subject, and we are obliged to them for their candour. Some have expressed doubts whether the Minor examination is not conducted at a loss. They think the profit comes from the Preliminary examination. We must always insist that the Preliminary is a part of the qualifying examination, but even if, for the sake of argument, we exclude the fees from, and the cost of that examination from, the calculation, we find that the revenue from the Minor, Modified, and Major examinations, and for registration and restoration, pay for conducting the examinations, maintaining the register, and administering the Act. Thus in 1895:—

	£ s. d.
Total of Minor, Major, Modified, and R. & R. fees	6,158 6 0
Total administrative, examination, and law expenses	6,056 6 9
Profit	£101 10 3

In this estimate we allow the Major (fee, 3*l.* 3*s.*) to rank with the Minor, although the charges for conducting the former must be more than the receipts; yet there is still a balance to the good, and, in addition, the Society pockets 2,059*l.* 19*s.* from the Preliminary. A surplus of 2,161*l.*, after paying for all those things that the official organ declares should be paid for by the examinees, is not a bad one. The *P. J.* argues that "the examinees should pay." We reply, "They already do."

Another friendly critic says we ought to allow a sinking fund for the examination building. It is clear from our figures that we could easily do that, and still have a surplus. But let it be remembered, as we showed last week, that that building was paid for entirely out of the savings from examination surpluses. It can hardly be claimed that candidates should be required to pay for their benefactions twice over. Moreover, the building was erected for other purposes as well as for examination.

Another correspondent says:—"Are you not also to blame? If you saw how things were going, was it not your duty to speak out plainly before?" And that man has read *THE CHEMIST AND DRUGGIST* for ten years or more!

The fact is worth recalling that the early administrators

of the Pharmacy Act considered the candidates' fees as paying for registration and examination, and emphasised their faith in that direction by apportioning the fees in the financial statements thus:—

£		
Major, Minor, Modified, and Preliminary registration-fees	...	2,567
Major, Minor, Modified, and Preliminary examination-fees	...	1,356

We quote from the 1876 accounts. It is not for us to explain why such men as George Webb Sandford, Thomas Hyde Hills, John Mackay, and Cornelius Hanbury arrived at the idea that the three-guinea Minor fee paid for registration—i.e., for maintaining the register and enforcing the Pharmacy Act; but Mr. Bottle and Mr. Atkins were on the Council then, and they, we feel sure, will agree with us that the course was based on honest conviction. What strikes us as remarkable is that the cry for a new registration-fee arose with the Society's need. It is not required for examination purposes, or for the register, or for law, but a few departments of the Society's own non-examination business have eaten up the investments and swallowed the surpluses, and are still hungry, so the Council think they must be fed by the young men of the trade. Pharmacists all over the country should consider these things, especially noting that the Minor fee is to be 10*l.* 10*s.* on entry, and 3*l.* 3*s.* for a second, third, or fourth trial in the same year of entry. But if a man goes in once, in a perfectly honest spirit, and fails, say, in January, 1899, then being convinced that his experience is deficient, resolves to take another year to it, on entering in January, 1900, he will have to pay a second 10*l.* 10*s.* That is what the new by-laws propose. It almost seems from this as if the amendment of the by-laws has been rushed in consequence of the 1896 accounts coming out on the disastrous side, for one cannot imagine business men passing such an unbusinesslike arrangement as the above, unless they have done it in haste.

A CHAPTER ON FINANCE.

IN the article under this title printed in THE CHEMIST AND DRUGGIST last week there is a statement regarding the income and expenditure of the Society showing a saving of 9,151*l.* The figures should, however, read as follows:—

	£	s.	d.
Expenditure on behalf of the members, 1869-1885	144,071	0	0
Subscriptions and interest on investments	138,294	0	0
Loss	£5,777	0	0

We regret the error, which no doubt some have observed who have taken the trouble to sum up the figures for each year from 1869 to 1885, given on page 432. For the year 1893 the expenditure should be 6,979*l.* The effect of the above correction is to show that the whole of the investments made by the Society since 1869 have been of moneys derived from examinations. This adds strength to our argument.

THE GERMAN PHARMACIST.

AN interesting inquiry into the profits of German pharmacies has been conducted by the German *Apotheker Verein*, and its results have recently been published in the German pharmaceutical papers by way of reply to a statement made last year on behalf of the Prussian Government, in a discussion on the reform of the German pharmacy laws. In April of last year, a commission appointed by the German Government assembled at Berlin for the purpose of drawing

up a scheme of pharmaceutical reform. On that occasion, a representative of the Prussian Ministry of Education, which looks after pharmacies, stated that a typical town pharmacy, with a turnover of 100,000*m.* a year, made a profit of 47,500*m.*, and a country pharmacy with a turnover of 18,000*m.* a net profit of 10,200*m.* These figures, although only taken from two pharmacies, apparently selected at random, were given by the Government as typical of pharmacies in general. In estimating the profits, the cost of conducting the business, exclusive of cost of goods, was arbitrarily estimated at from 40 per cent. to 50 per cent. of the gross receipts, and a sum amounting to 5 per cent. of the receipts was set aside to cover interest on the capital required in the business. Nothing was allowed for rent or taxes, the Government estimating that the pharmacist would recoup himself for this by letting part of his premises. Naturally, the statement referred to caused a good deal of dissatisfaction among German pharmacists in general, and several of them publicly protested against the accuracy of the figures. The German *Apotheker Verein* thereupon sent a circular to the proprietors of a number of pharmacies in town and country, representing businesses of all kinds, asking for information on the following subjects:—The cost of conducting the business, to be given in percentages; the gross receipts, the cost of goods, rent, interest on capital employed in the business; salaries and wages of the staff; light, coals, water, &c. Fifty-five replies have been received, and from the figures given therein the following averages have been drawn:—

—	Stock Purchased	Sundry Expenses	Rent	Interest on Capital
1893	37 90	19 41	7 04	4 37
1894	38 13	20 36	7 26	4 39
1895	38 41	20 29	7 08	4 46
Average	38 14	20 02	7 12	4 41

The figures represent the percentage proportion in relation to the gross receipts of the pharmacy. It will, therefore, be seen that the average cost of carrying on a pharmacy in Germany in 1893 was 68 72 per cent.; 1894, 70 14 per cent.; and 1895, 70 24 per cent. of the receipts, the remainder representing profit. The highest expenses were those of a pharmacy in Cologne—viz., 86 78 per cent.; next, one in Berlin, 83 63 per cent.; but even in the smallest business, in which the pharmacist has either no assistants at all or only an apprentice, expenses as a rule were more than 50 per cent. of the receipts. Only two of the fifty-five pharmacies who sent replies had expenses below 50 per cent.—viz., 49 46 per cent. and 46 66 per cent. respectively. According to the statistics in question, it follows that the average pharmacist in Prussia does not make a net profit of over 50 per cent. of his turnover, as alleged by the Government, but only one of about 30 per cent.

THE RISKS OF PHARMACY.

WE never knew fully the risks of pharmacy until we had the advantage of reading the book recently written by M. Pannetier, of Commeny, entitled "Hygiène du Pharmacien" (Paris: J. B. Baillière et fils). M. Pannetier, whose incursions into pharmaceutical literature we have had the pleasure of noting previously, justifies his volume by the observation that while the pharmacist concerns himself with the care of the public health, he is too apt to neglect his own. He is, indeed, a ministering angel to his drunken and damaged fellow-creatures, and is so pre-occupied with the thought of helping them that he forgets himself. This is a free rendering of M. Pannetier's preface.

It applies, as will be noted, especially to French pharmacists. Accidents of all kinds are taken to them as a matter of course, and perhaps it is on this account that they never have any doubt about the beneficence of the task allotted to them in the social system.

Let us run through the story of the dangers of our profession, according to M. Pannetier. First, the apprentice, repressing his inclination for boyhood's games, devotes himself to an assiduous life of labour. Here, again, we must point out that this is the French apprentice who is being described. With us boyhood's frivolity expires and the devotion to labour develops more gradually. Then comes the period of student life. Now, to use our author's expression, the embryo pharmacist avenges himself on the almost monastic existence of his early training. Either he devotes himself passionately to science and duty, or in other occupations he sacrifices a part of his nights. In either case, with his examinations before him, he has no chance—poor thing!—of "enjoying the delights of a calm quietude." Even M. Pannetier allows, however, that his digestion may be fairly good, and he only alludes in passing to the risks his hero has to run in the cheap restaurants of the Quartier Latin.

But think of him when he gets to business. Note his herculean labours behind the counter. M. Pannetier has made observations for a month with a pedometer on a youth engaged in a pharmacy. The hours of work were from 7 A.M. to 9 P.M., with three hours off for meals. The pedometer marked 11,000 steps per day, totalling, if each step is calculated at 60 centimetres, a distance of 6·6 kilometres, or $4\frac{1}{4}$ English miles! Allowing a second for each step, there remain 28,600 seconds in the day which the poor victim has to pass in an immovable but perpendicular position. The sympathetic author points out how this fatigue may render the poor pharmacist a ready prey to such foes as the influenza-germ on the look-out for some suitable soil on which to attach itself. M. Pannetier goes on to show how limited are the opportunities of the busy pharmacist to get his meals in peace, his sleep undisturbed, and his due allowance of fresh air and recreation. Besides these general conditions inimical to good health, there are risks special to pharmacy. There are, for instance, the poisons, the corrosives, the inflammables, and the explosives which a pharmacist has to deal with; there are the risks of contagion to which he is exposed from the empty medicine-bottles and other articles which come from the bedside of the patients for whom he dispenses; and there are all sorts of dangers attending the operations of pharmacy, from cutting roots to distilling spirits.

We do not wish to minimise the dangers of our occupation. They ought to be, and we should think are, carefully impressed on every youth who aspires to spend his life among drugs. But the real ones could be exhibited more impressively in an article of a page or two than in a volume of 260 pages, which can only be filled by a liberal provision of advice which approaches the grandmotherly in its character.

CARBON-MONOXIDE DANGERS.

Events run in grooves, 'tis said, and we had an example of that recently in the receipt of notes from our Paris correspondent regarding the detection of carbon monoxide, that most deadly of gases, by M. Gréhaut, and from another source notes of a paper read by Mr. Douglas Herman, F.I.C., at Liverpool. We cannot do better than give the gist of these two papers in parallel columns, prefacing them with the remark that they were read because of the recent trial at Amiens, which resulted in the release of a woman imprisoned

for murdering her husband, who really died from limekiln-gas-poisoning.

GRÉHAUT.

The paper advocated the use of the "grisoumètre" for detecting CO. The process followed consists in decomposing the oxycarbonated blood by acetic acid in *vacuo* at 100° C., collecting the carbonic acid and treating it in the grisoumètre. A cubic centimetre of this gas gives in this extremely sensitive instrument a deviation of 7·4 divisions. The deviations observed are exactly in proportion to the volume of carbon monoxide which has been absorbed by the blood, and by treating about 50 c.c. of oxycarbonated blood a clear blue vapour, characteristic of the poisonous gas, is observed in the grisoumètre.

We may add that Mr. Herman particularly objected to the introduction of water-gas into dwelling-houses, because of the danger from the carbon monoxide which it contains.

ACTIVE PRINCIPLES OF SARSAPARILLA.

Witold v. Schulz contributes a study of sarsaparilla to the last issue of the *Arbeiten des Pharmakologischen Institutes zu Dorpat*. He finds three saponin bodies—parillin (the smilacin of the older observers), smilasaponin, and sarsaponin. Parillin has the formula $C_{26}H_{44}O_{10} + 2\frac{1}{2}H_2O$, crystallises in thin plates or prisms, is almost insoluble in cold water, and easily soluble in strong alcohol; $a_D = -42\cdot33^\circ$, m.p. $177\cdot06^\circ$ corr. Smilasaponin has the formula $5(C_{20}H_{32}O_{10}) + 12H_2O$, is amorphous, forms a gummy mass with little water, and dissolves to a levorotatory solution $a_D = -26\cdot25$. Sarsaponin has the formula $12(C_{22}H_{36}O_{10}) + 24H_2O$, crystallises in thin, long needles, slightly soluble in a little cold water; $a_D = -16\cdot25^\circ$, m.p. $223\cdot45^\circ$ corr. These three sarsaparilla glucosides are homologous, and give, by warming with concentrated sulphuric acid and a drop of water, Pettenkofer's gallic-acid reaction. They belong to the sapotoxin pharmacological group. The paper gives a full historical, botanical, and pharmagnostic account of sarsaparilla. The same author also contributes a study of other sources of saponin substances, especially of the saporubins from *Saponaria officinalis*, and recommends the use of this substance in the treatment of syphilis by sapotoxins.

FOR NERVOUS DEBILITY.

The accompanying prescription is offered by Brown's Medical Company, Kemp Town, Brighton, Sussex, "as a certain and speedy cure." In their advertisement the company says: "Perfectly pure ingredients must be used in the preparation of this prescription:—

Cocain (from Erythroxylon coca) .. ..	..	$\frac{1}{2}$ dr.
Jerubebin .. .. .. ..	..	$\frac{1}{2}$ dr.
Helouias Dioica .. .. .. ..	..	$\frac{1}{2}$ dr.
Golsemim .. .. .. ..	..	3 gr.
Exignatiae amarae (alcoholic) .. .. ..	..	2 gr.
Exteptandra .. .. .. ..	..	scruples
Glycerine .. .. .. ..	..	q.s.
Mix. Make 60 pills.		

Take two at 3 P.M., and two on going to bed. In some cases it will be necessary for the patient to take three pills at bedtime, making the number five a day. This remedy is adapted to every condition of nervous debility and weakness in either sex." The company also offers, at 5s. 6d., a sealed package containing sixty pills, or five packages for 25s. It will be noted that each pill contains $\frac{1}{2}$ gr. of cocaine, which is a poison in the first part of the schedule. We do not know whether the pills sold by the company contain the poison, but the Pharmaceutical Council will, perhaps, look into the matter. The advertisement is taken from *Fur and Feather*, and it is possible that the printers are responsible for the errors in spelling.

HERMAN.

He described the symptoms of poisoning by carbon monoxide, and the best means of combating its effects—namely, by the administration of oxygen. He supported Dr. Haldane's suggestion that small animals, such as mice, should be used in mines to afford early indication of the presence of carbonic oxide, they giving visible signs of its effects much sooner than a man in the same atmosphere. It was shown that carbon monoxide was a cumulative poison, as little as 0·3 per cent. in the atmosphere proving fatal to a person exposed for some hours to its influence.

CALCIUM CARBIDE.

A small, but important, alteration in the Home Office memorandum dealing with this substance (*C. & D.*, March 6, page 389) has been made—viz., in the fourth condition upon which licences for keeping calcium carbide are granted. This now made to read:—

"The keeping and use of *commercially* pure carbide of calcium only, and the establishment of efficient arrangements for the sampling and testing of the carbide."

The word "commercially" is new, and is inserted because chemically pure carbide of calcium is at present unobtainable. We may point out that the new regulations cover the use of the carbide privately or publicly, in large or small quantities, and while they are not absolutely prohibitive they will suffice to bring home to people that the substance they are dealing with is dangerous, while local authorities will see when they grant licences that the more risky elements are excluded.

A MORE EXCELLENT WAY.

The following letter appears in the *Yorkshire Daily Post* of March 12:—

THE SALE OF POISONS IN LEEDS.

To the Editor of "The Yorkshire Post."

SIR,—My attention has been directed to two anonymous letters which have recently appeared in your paper in reference to the sale of poisons by unqualified persons.

Instead of troubling you, it would have been much better for "Chemicus" and "Qualified Chemist" to have supplied the local secretary or myself with particulars of the alleged cases of infringement of the provisions of the Pharmacy Act, 1868, so that the matter might be investigated and dealt with.

Yours faithfully,

RICHD. BREMIDGE,

Registrar under the Pharmacy Acts, 1852 and 1868.

17 Bloomsbury Square, London, W.C.,

March 11, 1897.

Complaining correspondents should note this. But we ought to say, to save Mr. Bremridge's postage-stamps, that it will be of no use to write to him general criticisms on the sale of poisons or specific instances of the sale of tincture of rhubarb or antibilious pills by grocers. Only exact details of breaches of the Pharmacy Act will be of any use.

MIDDLESEX MORALS.

The chemists of Middlesex will all be models of virtue before long under the fostering care of Inspector Walter Tyler, and Mr. Edward Bevan, the public analyst. These gentlemen have exposed and destroyed the alarming public danger of selling arsenical-soap containing no arsenic, and now they have turned their anxious attention to glycerine and lime-juice. A Hanwell chemist had manufactured some of this popular compound, and had put certain ingredients in the bottle, and gone to rest apparently in the innocent presumption that the necessary glycerine would manufacture itself, as the alcohol does in Sheffield ginger-beer. We gather this, not from the chemist's own statement, but from the argument of his legal representative. It appears that Mr. Tyler came along and bought that particular bottle before the reaction which was to yield sufficient glycerine to satisfy Mr. Bevan's conscientious investigation was complete; hence a 20s. fine at Brentford. Whether toilet-articles such as this can be reasonably called a drug we can hardly say; if so, we do not know where the crusade may end. Mr. Tyler may have orders for milk of roses, bears' grease, violet powder, and Persian sherbet up his sleeve, and, if so, Mr. Bevan, we presume, is polishing up his weapons for attacks on these. We cannot hold out the definition defence to Middlesex chemists with much confidence, because if a conviction could not be obtained under the Sale of Food and Drugs Act, it might under the Merchandise Marks Act. But, seeing that people get just what they want, we cannot but wonder whether the benefit for the Middlesexans is worth the expenditure of so much of Mr. Tyler's time and Mr. Bevan's brains.

The New Pharmaceutical By-laws.

THE Western Chemists' Association of London has had the first say regarding the new Preliminary examination and the ten-guinea Minor fee, and agrees to both. This was at a meeting held on Wednesday evening, Mr. Taplin in the chair, and eighteen members present. The Chairman led off the discussion. He said there was little division of opinion in the trade about the matter; all the chemists whom he had spoken to approved of both. He showed that the new Preliminary would do good, but more good if three years were fixed between the Preliminary and the Minor. The 10-guinea fee for the Minor should, like the Preliminary, begin in 1900, so that those now in the trade would get through at the present rate; but the Council in their wisdom had said that the fee is insufficient for the sinews of war, and who should supply these sinews but the students entering the trade? He was sorry this proposal had been attacked with a bias which one did not expect to find in a paper like *THE CHEMIST AND DRUGGIST*. He thought *THE CHEMIST AND DRUGGIST* had no case, therefore adopted the old plan of attacking the plaintiff. Mr. Taplin concluded by moving—

That the Western Chemists' Association of London, having read and considered the proposed new by-laws of the Pharmaceutical Society, are in full accord therewith. They beg to tender their hearty support and co-operation in the efforts of the Pharmaceutical Society to advance the education and interests of chemists generally.

Mr. Mathews seconded this motion.

Mr. R. H. Parker commended the proposed extension of the Preliminary examination, and hoped that at some future time the Matriculation examination [of the London University, we understood him to mean] would be the standard. He took it that the trade was agreed about this proposed change, and maintained that the Minor examination must also be increased in stringency as knowledge increases. Such increase in the Preliminary and Minor examinations would operate in two ways: it would give a better class of men, and carry with it better moral convictions; while it would lessen competition, lessen the number entering our ranks, and there would be fewer men in the trade, all of a better type. As to the increase of the Minor fee, he argued that although the money would accrue to the Pharmaceutical Society it would be for the benefit of the whole trade, because whatever benefits the Society conferred upon its members were also felt by the trade. The Society's influences were like sunshine, they were conferred upon all, good and bad alike. He further maintained that the money was necessary because it would take the ground from the feet of those who opposed the trade, and it was absolutely necessary that we should have some body for offence or defence. That body is the Pharmaceutical Society. In enlarging upon this theme, Mr. Parker said that as there is no hope of the Society getting an increased membership, the only thing to do is to make those outside the Society pay for the privileges at present conferred upon them by the Society. He would have liked if the fee could have been increased to twenty guineas, so that by passing the Minor a man would become *de facto* a member of the Society.

Mr. A. C. Wootton (Editor of *THE CHEMIST AND DRUGGIST*) spoke on the invitation of the President. He said he would confine his remarks at present to the proposal to advance the fees payable for the qualifying examinations. Since that claim—which was, in effect, a demand for an additional 5,000*l.* a year—had been sprung on the trade a fortnight ago, no tangible argument in support of it had been offered. Certain statements had been made and repeated, such as Mr. Martindale's allegation that the examinations as at present carried on were unremunerative, and the declaration in last week's *Pharmaceutical Journal* that candidates paid nothing towards the expenses of carrying out the duties imposed on the Society by the Pharmacy Act. But no justification for this assertion was given, and none could be given. The figures showed that the Society was clearing a gross profit of some 5,000*l.* to 6,000*l.* a year out of the examinations, and no one could say that anything approaching that sum was required for the legitimate maintenance expenses and for carrying out the

requirements of the Act. The fact was that the Society was spending about 35s. a year on each of its members, and had to make up its deficit from this examination revenue. The losses on the *Pharmaceutical Journal* had rapidly mounted up from 875*l.* in 1890 to 3,595*l.* in 1895. This serious condition must have compelled the anxious consideration of the Council, and was, he maintained, the real reason for the present unjust demand.

Mr. Hyslop, having poked a little fun at the last speaker, proceeded to speak of the way in which the Pharmaceutical Society had been misrepresented from the first. He considered that the increased Minor fee was only a corollary to the extended Preliminary examination, which he cordially approved of, and considered to be a fitting way for chemists to celebrate her Most Gracious Majesty's jubilee. Some philosophic references to the getting of money led Mr. Hyslop up to the point of how the Society is to spend the ten-guinea Minor fee. When he took up the periodical called the *C. & D.* the week before last he wondered where the enemy would creep in in this matter. He was quite sure he would manage it somehow. "Unfair journalistic competition." We have it now, he said. (Laughter.) He quoted another journal which considered levying an increased fee on the young men entering the trade for the purpose of running a journal as distinctly unfair. A good deal had been said in both these journals regarding the starting of the P.A.T.A., and reading that in the light of present circumstances showed the hollowness of their cause. He contrasted the three trade-journals, much to the glory of the *Pharmaceutical Journal*, diverted a saying of Sir Joshua Fitch's to his own purpose, pointed out what expense the Pharmaceutical Council has gone to in building, showed that the Society has never asked its members for embellishments, enlarged on the beneficence of the Benevolent Fund, and concluded by saying that it is not honest for those entering the trade to reap where their sires have sown—they should bear some of the expense of the sinews of war.

Mr. Davis said that everyone seemed in favour of the Preliminary examination extension, but gave it as his experience that ability to pass a stiff Preliminary is no indication of competence to pass the Minor. He knew a fellow with the London matriculation who failed in the Minor three times. He thought the ten-guinea Minor fee should begin now.

Mr. Frederick Andrews reminded his fellow-members that they stood in a peculiar position: they had passed their examinations and paid their fees, and this was a matter which had not so much bearing upon them as upon those who had not passed. He agreed with the Preliminary proposal, and urged the Council to provide some relief by by-law to those who enter for the examination, and by some accidental circumstances are prevented from appearing. His mind was not made up regarding the Minor fee. It is all very good for the well-to-do and high-class chemists, but there are poor men in the trade who bring up their sons to it, and it would press hard upon them. It might be argued that to get rid of these men would be better for the trade; but they had the public to consider. He knew that these poor chemists did great public service, and this increased fee was most serious to them. He had been told that the present proposal would knock out men who are a disgrace to pharmacy, but with that idea he did not agree.

Mr. W. Warren considered that the new Preliminary would help to ensure a safe passage through the Minor; also that the increased Minor fee would press hard upon no man. Those coming into the trade would have a return in the increased measure of protection, especially from the big capitalist. Mr. Wootton's statement that the Pharmaceutical Society gives each of its members 35s. worth for his guinea was a good advertisement; it is open to anyone to take that 35s. worth. Mr. Wootton's motive was apparent, but if he would wait a few years he would see that they would put the *Pharmaceutical Journal* upon a paying basis.

Mr. Marsh proposed that the Council should give every man who passes the Minor the *Pharmaceutical Journal* free for a year, so that they might continue it as subscribers.

Mr. Davis supported the suggestion.

Mr. G. S. Taylor was entirely in sympathy with the Council, and had advocated the change of the Preliminary during the twenty years he had been a superintendent of the examination. As to the increased Minor fee, it was easy

proving anything by shuffling figures. *THE CHEMIST AND DRUGGIST*, to which they were all indebted for the work it had done, had shown its hand with brutal openness by saying that the money was required to keep up the *Journal*. The Council should do what it could to improve it, and was justified to get the sinews of war for it. The examinations were an enormous expense. If any man entering the trade took objection to the fees, let him stop out of it. He deeply regretted the position which *THE CHEMIST AND DRUGGIST* had taken up, and considered that the way it concluded its last week's article was unworthy of it. He advocated the institution of a distinct registration-fee.

Dr. B. H. Paul (editor of the *Pharmaceutical Journal*) pointed out that the fee now paid is a registration-fee. The statute lays down two conditions for registration—viz., that an examination shall be passed, and that a fee shall be paid.

Mr. Phillips recalled the fact that the Chemists' Assistants' Association had passed a resolution regarding the Preliminary examination, exactly on the lines now adopted by the Council, twelve years ago, and asked why the Council had been so long deciding the matter.

The resolution was then put and carried *nem. con.*, Mr. Andrews not voting.

PHARMACEUTICAL COUNCIL ELECTION.

Mr. Andrews called attention to the fact that there are too few London members on the Council for the amount of committee-meeting work which has to be done, and it was agreed to nominate Messrs. W. Warren, J. C. Hyslop, and R. H. Parker.

This was all the business.

New Companies and Company News.

JESSOP'S STORES (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To acquire and take over as a going concern the business now carried on by Mrs. Eliza Jessop at Wakefield Road, Bradford, to enter into an agreement with her for the purpose, and to carry on the business of grocers, store proprietors, tea-dealers, general provision merchants, chemists, druggists, and manufacturers of and dealers in medicated wines, malt-extract, beef-extract, &c. Registered office, 60 Wakefield Road, Bradford.

"TACQUARU" COMPANY (LIMITED).—Capital 15,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with J. Stuart Robertson, to manufacture and deal in the preparation known as "Tacquaru," to establish and maintain homes for the cure of dipsomania, and to carry on the business of chemists, druggists, drysalters, and makers of and dealers in proprietary articles of all kinds. The first subscribers (each with one share) are:—Augustus Hamilton-Johnston, 22 Draycott Place, S.W.; J. Stuart Robertson, 16 Tedworth Square, S.W.; John B. Bryson, Dulwich; Frank R. Lewis, 7 Angel Court, E.C.; George F. Ferguson, Oakingham, Cavendish Road, S.W.; Isaac Bates, 46 Batoun Gardens, West Kensington, W.; W. J. Woods, The Waldrons, Croydon—all described as gentlemen. The regulations of Table 'A' in most cases apply.

CHARLES JONES & Co. (LIMITED).—Capital 2,000*l.*, in 1*l.* shares. Objects: To acquire the business of a manufacturer of and dealer in brewers' finings and other brewing-specialities, cordials, liqueurs, oils, isinglass, hops, vinegar, and drysalters carried on by Charles A. Jones, at Carver Street, Leeds, under the style or firm of "Charles A. Jones & Co.," and to carry on the business of manufacturing chemists, druggists, drysalters, oil-merchants and general store-keepers. The first subscribers (each with one share) are:—Chas. A. and Mary Jones, 171 York Street; Arthur Benson, 7A Freehold Street, hotel proprietor; Geo. W. Sharp, 4 Lincoln Fields Row, hatter; J. Howe, 39 Freehold Street, brewer; A. Wright, 16 Coventry Place, cashier; E. H. Cole, 171 North Street, chemist (all of Leeds). Registered office, 10 Carver Street, Leeds.

PARKE'S DRUG-STORES.—At a meeting of the board of directors held on March 17, an interim dividend was de-

clared, at the rate of 6 per cent. per annum, on both ordinary and preference shares of the company, for the half-year ended December 31 last, payable on March 30.

MARIAGE DE CONVENANCE.—Union of the Great Heiress, Miss Polly Naris, with the Hon. Joe Hannis. *Punch* has a sketch, by Linley Samborne, representing the bride towering above the very smart bridegroom. The following "Nuptial Duet" is appended:—

My Phiz is my fortune,
Sir, she said,
Sir, she said.

My Phiz is my fortune,
Miss, he said.

"A very large annual saving—nearly 17,000*l.*—is anticipated as the result of the amalgamation of the Apollinaris and Johanniss companies"—*Times* City article, March 11. "O happy pair!" exclaims *Mr. Punch*, "what an economical young couple."

THE ROSBACH SPRINGS (LIMITED).—At the first annual general meeting of this company, held at Winchester House, Old Broad Street, on March 12, Mr. Edward Moore (chairman) said that upwards of 6,000*l.* had been spent in advertising and developing the business, and the amount had been charged to capital. This was the usual procedure when a business such as theirs was commenced. Eliminating this question, the profit for the period during which the company had been working was 221*l.* This result, the directors thought, was distinctly encouraging. The sales in 1896 had increased materially over 1895, and the progress had been well maintained since. The springs were situated within an easy drive of Homburg, on the slopes of the Taunus Mountains, and about 3½ miles from Friedberg, whence all parts are reached by railway. A railway would soon be brought close to their property. The water, he asserted, was the best natural table-water on the earth's surface. The report was adopted.

THE UNITED ALKALI COMPANY.—The report for 1896 states that the year ending on December 31 last shows a net profit of 288,070*l.* This it is proposed to apportion as follows:—Dividend on preference shares at 7*s.* per share, less income-tax, 181,174*l.*; dividend on ordinary shares at 4*s.* per share (or 2 per cent.), less income-tax, 55,939*l.*; reserve fund (making the total reserve 707,781*l.*, of which 600,000*l.* forms the depreciation portion of the fund), 40,955*l.* The buildings, plant, and machinery have been well maintained, and all necessary renewals have been properly effected. During the year Mr. Dennis and Mr. Allhusen have retired from the board. Of the retiring directors, Messrs. J. C. Gamble, W. Gamble, Lieut.-Col. J. B. Gaskell, and Mr. J. A. E. Rayner offer themselves for re-election; Mr. T. Alexander does not. After the general meeting an extraordinary meeting will be held for the purpose of considering a resolution so to alter article 83 of the articles of association as to provide that the qualification of every present and future director shall be the holding of shares or stock of the company of the nominal value of 5,000*l.*, of which at least 3,000*l.* shall be in ordinary shares or stock.

PRICE'S PATENT CANDLE COMPANY (LIMITED).—Mr. T. C. Wright presided, at the Cannon Street Hotel, over the fiftieth annual general meeting on March 12. The directors intended to celebrate their own jubilee and the sixtieth year of the Queen's reign by giving a special entertainment to the staff, subscribing 100 guineas to the Indian Famine Fund, and making a larger donation to the Bolingbroke Hospital, near their works at Battersea. Their financial position was better by 23,700*l.* than it was a year ago. The company's trade had increased in volume, and the profit was larger by about 1,000*l.* than that of 1895. They had a total available balance of 62,231*l.* after deducting the 30,000*l.* for the interim dividend, and they recommended that 12,500*l.* should be written off for depreciation of fixed properties and plant, and that 32,812*l.* should be applied in paying a dividend of 17*s.* 6*d.* a share, making, with the interim dividend, 1*l.* 13*s.* 6*d.* per share for the past year, against 1*l.* 12*s.* 6*d.* for 1895 and 1*l.* 7*s.* 6*d.* for 1894. They also recommended that 10,000*l.* should be added to the reserve fund, increasing it to 35,000*l.*; and a balance of 6,919*l.* would then remain to be carried forward. The motion was adopted.

SPRATT'S PATENT.—The directors' report for the year ended December 31 last states that the profit and loss account, after providing for expenses of management, maintenance of premises, plant and machinery, interest on debentures, and all other expenses, a reserve of 2,000*l.* against possible bad debts, and again writing off 2,000*l.* from the first item of assets, shows a balance of 26,119*l.* An interim dividend at the rate of 10 per cent. per annum was paid on June 30, 1896, and a dividend for the second six months at the rate of 15 per cent. per annum, making 12½ per cent. for the year, is now recommended. There has been an increase in sales, but materials and freights cost more than in the previous year.

J. SCHWEPPPE & CO. (LIMITED).—The *Financial Times* hears, "on the most reliable authority," that a contract has just been signed under which Mr. Hooley agrees to take over the whole of this company's business and assets, as from the beginning of 1897, for a round million in cash down. The *F. T.* expects that the prospectus of the new flotation may be expected at the end of April, and that the capitalisation will prove to be 1,200,000*l.*, Mr. Hooley taking his profit in deferred shares. The Schwepppe business (says our contemporary) has a world-wide reputation, but it has hitherto been run on very conservative lines. It is understood that it has not been the practice to spend more than 2,500*l.* on advertising in any year, and we may be sure, from observation of Mr. Hooley's methods in regard to Bovril and other enterprises, that a great deal more energy will be thrown into this department, although the general management of the Schwepppe Company is, we gather, to remain as before. Even with the comparatively meagre advertising indulged in, we hear that the profits during 1896 exceeded 60,000*l.* The company's establishments are at London, Hendon, Malvern, Colwall, Liverpool, Bristol, Glasgow, Sydney, and Melbourne, and these are, of course, all taken over in the deal, together with the right to manufacture the new mineral water "Britannia," regarding which great hopes have been expressed. The present called-up capital is 288,000*l.*, and the recent dividend record has been as follows:—(Old Company), 1891 and 1862, 12 per cent.; (New Company), 1893, 12 per cent.; 1894, 10 per cent.; and 1895, 11 per cent. The present price of the ordinary shares is 11½, while the figure to be paid by Mr. Hooley is equivalent to 12.

Personalities.

MR. E. CEREDIG EVANS, chemist, Cardigan, has been placed on the Commission of the Peace for the borough.

MR. R. J. F. L. CASSIE, chemist and druggist, 49 Newgate Street, E.C., has been appointed senior churchwarden of Christ Church, Newgate.

AN Armenian refugee (23), whose family has been massacred, has arrived at Torquay, and is learning pharmacy from Mr. Holloway, Mr. T. Viccars, F.G.S., teaching him English.

MR. J. C. HEWLETT, F.C.S., of the firm of Messrs. C. J. Hewlett & Son, Charlotte Street, E.C., left England this week by the Orient s.s. *Oroya* for a business tour through the Mediterranean, &c.

MR. FRANK HARWOOD LESCHER has had the misfortune to lose his brother, Mr. Herman Lescher, of the firm of Herman Lescher & Co., chartered accountants, of 6/8 Clement Lane, E.C., who died on March 17.

WE much regret to hear that Mr. Richard Bankes Barron, head of the firm of Barron, Harveys & Co., was taken ill suddenly and rather seriously on Wednesday evening. Mr. Barron was to-day (Thursday) reported to be slightly better.

MR. R. F. REYNOLDS has produced his usual "Comic Guide to the Leeds City Art Gallery." It contains some 25 burlesque sketches of the pictures exhibited, some of which are very humorous. The proceeds of the guide are devoted to a poor children's holiday-fund, and copies of it, price 6*d.*, may be had of R. Jackson, Commercial Street, Leeds.

The Bubonic Plague.

By THOMAS STEPHENSON, F.C.S., BOMBAY.

WHEN last September it was announced that a few cases of bubonic fever had broken out in the Mandvi district of the city we little knew that it would be followed by such a calamity as has now befallen the population, and with it the whole life of a large and influential commercial port. Yet in less than a month the disease was soon recognised as none other than the plague which had ravaged Hong Kong a couple of years ago, and it was only a question of time for it to seize practically the whole city in its clutches.

Where the disease came from is not known. Many theories have been advanced; it has been suggested that it was imported by ships from Hong Kong, that it was generated in long-stored grain, or—that ever-recurring municipal problem—the drainage of a flat city on the sea-level was the real cause of its appearance. In any case it has come, and so far stayed, and the *laissez-faire* policy which characterises the Bombay Municipality in common with so many others has allowed it to spread and assume by this time quite alarming proportions.

The nature of the disease is peculiar. A sudden onset of high fever, which, after thirty-six to forty-eight hours, is accompanied by bubonic swellings in the armpits or groins, or both, and rapidly followed by death unless the constitution of the patient can withstand it, is the common form the malady takes. In other cases it assumes what is known as the "pneumonic" variety, in which pneumonia is the only symptom, accompanied by high fever, and the buboes may or may not appear. In the latter case the "plague" bacillus is found in the sputum. Three to four days is the average duration of the acute stage, and if the patient is to succumb he does so in that time. The critical part safely over, a patient with a good constitution will with care survive and become convalescent in a few weeks.

Although the real and original cause of the disease is unknown, the predisposing factors have been carefully sought for, and it has been found that certain conditions bring on the epidemic and cause it to spread in particular localities. That it is essentially a filth disease there can be no doubt, because we see its ravages more distinctly in those parts of the town and suburbs (unfortunately too many) where filth is the predominating feature. Darkness and dampness bring about accumulations of dirt, and in those native tenements where the inmates are crowded densely together, and where the landlord's principle has been to command a maximum of rent with a minimum of outlay, we find houses into which the light of the day rarely if ever enters, while the water taps, once opened, are hardly ever shut completely, thus causing a constant dripping with its consequent dampness and attendant filth. It is almost invariably in such houses that fresh cases break out, and it has been found when such a case has appeared, if the surviving inmates be sent away, the water turned off, the tiles removed from the roof to admit sun and air, and the walls whitewashed, that fresh cases rarely break out. Disinfectants, of course, are freely used by the Health Department, who are now employing a large additional staff of sanitary inspectors to treat houses in which outbreaks occur in the above manner. By the adoption of such rigorous measures the disease has by this time been quite stamped out in the Mandvi district, where it first appeared, and thus to some extent has modern science proved itself equal to the emergency.

The prevention of the spreading of the disease, however, has presented the authorities with a much more serious problem. That the disease is not a contagious one—like smallpox, for instance—has been pretty conclusively shown, because contact with plague-patients has very rarely resulted in an attack, unless the disease has been shown to have come in actual contact with a wounded surface. Yet the disease has spread all over Bombay in a most inexplicable manner, striking down some and leaving others alone. The food and habits of life have much to do with the liability of certain persons to attack,

and it is well worthy of note that certain races and classes have suffered more than others. The almost total immunity of Europeans is very striking, and goes far to prove that good food and cleanly habits render one immune. Of the few Europeans who have succumbed, only one so far was born in Europe, and he (Dr. Manser) was a man of an acknowledged weak constitution. It is supposed that he contracted the disease while examining plague-patients with a wound on his finger. His case took the pneumonic form, and a very sad sequel to it was the death a few days later of his nurse, a European lady born in India. The other Europe-born patients who have been attacked have all recovered, and that this is due to constitution is proved by the fact that once the disease has shown itself nothing but ordinary careful hospital treatment is of any avail. There can be no doubt that the disease-germs are conveyed about by some means or other, whether by clothing or wind is not known, and that they find a suitable resting-place in such houses as have been already described, from which it attacks the ill-fed, badly-housed, and filthy natives who swarm so profusely in such houses. How it attacked others who are not so situated it is difficult to say, but in every case where a "better-class" person has been attacked some good reason has always presented itself, as in the case already referred to of Dr. Manser.

Of course, at such a time one naturally expects a host of remedies to be put forward, and it is surprising that the quacks have not been more in evidence. As it Remedies is, many cures have been advanced, but none have been taken up. Ipecacuanha-powder has been put forward, also chloride of gold, which latter dates back a long way, having been found in an old Portuguese medical work. It is said to "break up the buboes," and is spoken of in that work as most marvellous in its effects. An English gentleman gravely writes to the papers to the effect that every case of plague he has come across has completely yielded to a 2-oz. dose of Epsom salts! Surely, with such a simple remedy, the epidemic should no longer be with us; and it is only charitable to the gentleman to suppose that his "plague patients" have only been afflicted with ordinary fever. Another newspaper correspondent recommends "Plague-vinegar." Here is his recipe:—

Take a large wine-bottle, and fill it to three-fifths with the best and strongest white vinegar (pure wine-vinegar). Throw in a handful of coarse-grained salt and a handful of pounded juniper-berries. Add to this a handful of angelica leaves cut into small pieces, 1 oz. cloves in grains, and, lastly, two garlic-onions cut in pieces.

Expose the bottle to the sun for about one hour, or warm it on hot embers or in hot water, during which time the cork of the bottle, with a view of avoiding an explosion, must be lightly closed. The mixture is then ready for use.

The Method of Application.

Every morning before going out, and also once in the afternoon, better still thrice a day, put a little of this vinegar into the palm of your hand and absorb it with your tongue. Then rub some of it in your nostrils, on the temples, behind the ears, and also on your wrists, and you may be sure not to catch the plague on that day. If you fear the plague and you feel a kind of weakness, swallow a spoonful of this vinegar, and if there is some poison in you, you will vomit it immediately. If a tumour has already appeared, make some of this vinegar hot, dip a piece of linen in it, and put this on the tumour and cover it well with another piece of linen for about five hours, when the tumour must have a mealy appearance, which is what is required. If, however, not so, the same process must be repeated.

The usual native correspondents have written to the effect that they will cure by means of secret drugs, the nature of which they will not impart; and there is one native living within a stone's throw of the writer who claims to possess such a secret. Be that as it may, he has actually cured several patients. Prophylactic remedies are being resorted to to some extent, and quinine and phenol pills are largely prescribed by some doctors as a preventive.

In the midst of so many old-fashioned and unscientific remedies, it is pleasant to see that the matter has also been Inoculation. worked up from a true scientific standpoint. Directly the plague broke out in Bombay, Dr. Haffkine, the bacteriologist, came across from Calcutta, where he had worked so successfully with cholera-inoculation. Since October he has been working with the bacteria of bubonic fever, and a few weeks since he was able to announce

that he had succeeded in preparing a prophylactic lymph. This he tried on himself, and several medical men, with success, and the harmlessness of the operation having been conclusively proved, the writer, among others, summoned up courage to have himself "done," and his experiences may be interesting. The first inoculation was made by injecting $2\frac{1}{2}$ c.c. of the lymph into the left flank. The operation was perfectly painless, thanks to the use of cocaine, and Dr. Haffkine advised the writer to attend to his work as usual, take his temperature every two hours, and pay no attention to any unpleasant symptoms beyond writing them down for reference. Whether it was due to the injection having been made just before luncheon, or to constitutional weakness, cannot be said, but on the way home he fainted in his carriage, and repeated the faint shortly after arriving home. A feeling of faintness and malaise soon became constant, the temperature gradually rose during the afternoon and evening, and the side where the injection had been made became more and more tender and painful. In the course of the evening the temperature rose to nearly 102° , and the pain in the side during the night made sleep a doubtful quantity. Indeed, had it not been for a drowsiness induced by the lymph, and which has been noticed as a usual symptom in such cases, sleep would have been impossible. However, next day the temperature was normal, and the pain in the side, which almost entirely prevented locomotion, was the only noticeable symptom. After three days, when all symptoms had subsided, a second injection of 2 c.c. was made. This was not followed by any faintness, as in the previous case, and the pain in the side was at first less. The temperature rose to 103° during the evening, and next day kept about 101° all day, the pain becoming more severe, and the drowsiness observed on the previous occasion being also very marked. The second injection was followed by slight buboes, swellings which were painful, but not very markedly so. These, however, with all other symptoms, gradually subsided, and after a few days the inoculated one was in even better health than before. Dr. Haffkine said that the dose had been sufficient for immunity, and the peace of mind induced by the declaration was very comforting. About 500 Europeans and natives have subjected themselves to the operation, and in no case has the inoculation been followed by any serious or fatal consequences, nor have any of the 500 been attacked by the disease. A pretty severe test was applied when the plague broke out in the House of Correction; 150 prisoners were inoculated, and of these three died within twenty-four hours, but all three had symptoms of the disease before inoculation. Subsequently, two of the inoculated prisoners were attacked, and both rapidly recovered. Of 180 inoculated prisoners, twelve have since been attacked, of whom six have died. This was done three weeks ago, and is a pretty severe test, proving conclusively that the lymph has a high prophylactic value, though it cannot be looked upon as a curative agent. The principle on which the lymph is prepared is similar to that of cholera and typhoid inoculation—viz., a culture of bacilli is made in which the bacilli are destroyed (by heat or chemicals), leaving the toxins free. These toxins act on the blood, producing the disease in a mild form, but there being no bacilli to live and multiply the symptoms soon run their course and abate. The pabulum for these germs having thus been destroyed, the patient is rendered immune to further attacks. Dr. Haffkine is at present at work preparing an antitoxic serum, which he hopes to achieve shortly by passing the virus through horses. His results are eagerly awaited. Meanwhile, he is trying the effects of ealcium chloride in 30-gr. doses, given immediately after the injection of the lymph, to alleviate the pain at the seat of injection, and a certain amount of success has attended his experiments so far.

In conclusion, a few words as to the effect this epidemic has had on Bombay may not be out of place. Most exaggerated and alarmist reports seem to have found

Effects on the City and People. their way into the home papers regarding the plague in Bombay, and the illustrated papers

have supplemented these with drawings of a most fanciful and imaginative nature. Never has ignorance, coupled with a desire for sensational "copy," wrought such havoc with the truth, and the anxiety of our relatives and friends in the old country is hardly to be wondered at. Let our friends keep their minds easy. We are far safer here,

even if uninoculated, than we should be in one of the fever districts of Africa, or even in the "dear home-land" during an influenza epidemic. Of course, it is impossible to ignore the havoc that this epidemic has wrought on business, commerce, social functions, and suchlike; but these are the natural outcome more of panic than disease. We all know the old legend of the dervish on the desert, who met the plague travelling towards Bagdad. "Whither goest thou?" said the dervish. "To Bagdad," said the plague, "to kill five thousand people." On returning the dervish again met the plague. "Thou told'st me," said he, "thou wert going to kill five thousand, and thou hast killed fifty thousand." "Nay," said the plague, "I killed only five thousand; fear killed the rest." It is much the same in Bombay at the present time. The exodus of natives has been enormous, and the result has naturally been that isolated cases have appeared already in several places up-country. But it is a mistake to say that the disease is thus being disseminated.

The effect on the drug-trade is of the greatest interest to the readers of THE CHEMIST AND DRUGGIST, so a few words on this subject may be written. Business, as **How the Drug trade Suffers.** such, is practically at a standstill. Retail trade is at its dullest; "society" is out of town, as there is nothing in town to attract it; mail-passengers, alarmed by the news they have read in the home-papers, flee out of Bombay as fast as horses and trains can carry them; natives, "funky" at all times, and trebly so now, fly to their native country as soon as they can beg, borrow, or steal the wherewithal to do it; and Bombay is practically empty. The plague is not a disease demanding medicines, consequently medicines are not in demand. Disinfectants are at a premium, so much so that the supplies are in most cases exhausted, and firms have to wait till the arrival from Europe of fresh shipments. The disinfectants most in demand are phenyle, carbolic acid and powder-ehloride of lime, sulphur, eucalyptus oil, naphthaline, and the like. Free chlorine is also used largely, and is an excellent disinfectant. *Apropos* of this, a writer in the *Advocate of India* suggested—whether in jest or in earnest, it is difficult to say—the employment of nitrogen chloride (NCl_3) as a ready means of producing the gas. He recommended rapid agitation of this liquid, which, he said, could most probably be procured from any local chemist, as the quickest method of making a "clean sweep of all microbes," but he omitted to say what would become of the agitator.

Not only has retail business suffered, but general trade and commerce is stagnant, all on account of the exodus of people from the city. The drug-bazaar is deserted, as are all other bazaars. There are at present three native drug-shops open—two from 10 to 4 daily, the third about two-days in the week. Both the former will be closed before this appears in print. Shipments are coming in, of which no one appears to take delivery, and in consequence the banks, who hold the documents, are becoming tight for money, which is now very dear.

The native town is a curious sight. Not only is it practically empty, three out of four shops and houses being closed, but the work of the Health Department is everywhere-visible, and disinfectants and whitewashing are in evidence at every turn. The red ring on the doorpost, which is the outward and visible sign inscribed by the Health Department wherever a case has broken out, has a depressing effect, reminding one of the black cross of the olden times; in the present case, however, it signifies that the place has been disinfected and whitewashed, and that all danger is over. To do it justice, the native town of Bombay has never looked so clean.

All social functions are under the circumstances at a discount, except those of a purely private nature. The Governor, Lord Sandhurst, has signified his intention of remaining in Bombay till all has passed over, but all Government House festivities are postponed.

Although Bombay is wrapped in gloom, the signs are at least hopeful. The disease appears to be passing northward, and the sanitary measures adopted have at least had the effect of reducing the virulence of the attacks that now occur. It is hoped that the hot weather will see the last of the present scourge, and meanwhile Government have in contemplation most drastic measures for its eradication, which will in a few more months once more entitle our city, to what has been its motto in the past—"Uis pria in Indis-

Novelties and Trade Notes.

SEEDS IN PACKETS.

THIS is the month for seed-sowing, therefore a month during which many chemists can add a profitable extra to their stock. We commend to their attention the seeds in packets offered by Mr. Samuel McCausland, seed-merchant, Belfast. They are put up nicely—the floral kinds in floral packets—so that all that the chemist has to do is to reserve a portion of the counter-space to show them. They are self-sellers. Those who think of trying the business, or want garden or flower seeds of any kind, should ask Mr. McCausland for his list.

MOTHS.

THIS is the season when careful women bethink themselves of camphor and all those things which will keep away moths. It is, therefore, the time for pushing Rudkin's moth-bricks. Mr. Drane, chemist, Cardiff, who makes the bricks, is careful to point out that his speciality is a preventive, not a cure. We may recall the fact that the objects of camphor and Rudkin's moth-bricks are to charge the atmosphere surrounding apparel with something which moths do not like, so that they will not deposit their ova upon the apparel. The bricks seem to be more effectual than camphor. They have a pleasant odour, and are neatly put up to retail at 6d. each.

AMBROSIA.

A GOOD name for the new preparation which Messrs. Evans, Gadd & Co., Exeter, have brought out. It is a combination of their extract of malt with 25 per cent. of Devonshire cream. As a combination it is perfect, showing no tendency to separate, yet is sufficiently fluid to pour out of the bottle, and the taste is nice. It is put forward as a substitute for cod-liver oil, and while we maintain that the action of that oil is *sui generis*, we admit that there can be no more agreeable and efficacious substitute for it than the natural fat of milk. It is specially adapted for children's use. We congratulate the firm on the elegant manner in which they have put up the preparation—viz., in round W.M. stoppered bottles, neatly capped and finished with silk cord, and enclosed in a fancy cylindrical case. It retails at 2s. 6d. a bottle. We are glad to say that this is the net retail price, Messrs. Evans, Gadd & Co. having agreed to put ambrosia on the P.A.T.A. list. We wish all new specialities were treated in this way. It would be better for everybody. Messrs. E., G. & Co. will supply handbills, showcards, and physicians' samples to retailers of ambrosia.

NUGGETS.

“NUGGETS: A Handbook of Useful Information” has just been published in this country by Messrs. Thos. Christy & Co., 25 Lime Street, E.C., as an aid to selling Stearns's wine of cod-liver oil. It is a compact little book of seventy-eight pages with a great deal of interesting and curious information in it which customers will be pleased to read—that is the main thing. Messrs. Christy will send to chemists “as many copies free as they can judiciously distribute.” We do not regard everything in it as gospel truth. Take this abbreviated paragraph as an example:—

Professor Wilson, of England, is the highest authority on the hair. [Erasmus Wilson is long since dead.—ED.] He prescribes a lotion, composed of water of ammonia, almond oil, and chloroform, 1 part of each, diluted with 5 parts alcohol, or spirits of rosemary, the whole made fragrant with a drachm of oil of lemon. Dab it on the skin, &c.

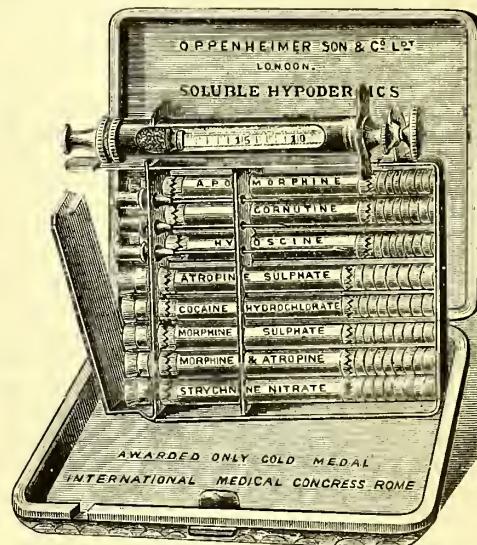
It would have been quite as easy to give the true Erasmus Wilson's hair-lotion. But we do not mean to say that there is much else in the book on a par with this.

“PEPSALIA.”

WE understand that the well-known speciality “Pepsalia” has been purchased from Messrs. G. & G. Stern (Limited), as from March 11, by the enterprising company Cerebos (Limited). Pepsalia will in future be manufactured at the Cerebos Works in Newcastle-on-Tyne under the superintendence of the company's own chemists. All orders from the date of purchase will be executed by Cerebos (Limited), Newcastle-on-Tyne, and 3 Maiden Lane, E.C., and at their various branches throughout the country.

HYPODERMIC CASE.

MESSRS. OPENHEIMER, SON & CO. (LIMITED) tell us that they have a new hypodermic case, shaped like a cigarette-case. This is an engraving of it:—



The case is made of aluminium, and is fitted with a movable frame containing the things which are specified in the engraving. The contents do not shake, and it is almost superfluous to say that they can be seen at a glance.

MESSRS. PARKE, DAVIS & Co., of Detroit, have purchased the Cudahy Pharmaceutical Company's animal products department.

MR. ANDREAS SAXLEHNER directs attention in an advertisement this week to the judgment of the High Court in reference to the name “Hunyadi,” which is now declared to be his exclusive property.

MESSRS. MOISE & MARSHALL (LIMITED), of 9 Butler Street, Milton Street, E.C., have made an arrangement with the Glasgow Apothecaries' Company, 32 and 34 Virginia Street, Glasgow, appointing them their sole agents for Scotland, so that their perfumes, &c., will henceforth be obtainable from the company on the best conditions.

MR. JOHN D. MARSHALL, general manager of Marshall's (Limited), 72 Red Lion Square, claims, in reference to a notice published last week of Moise & Marshall's toilet preparations, that he is the original filler of enamelled tubes for the trade. He wishes it to be clear that he is not in any way connected with the firm of Moise & Marshall (Limited).

THE business at the Cale Street Distillery, Chelsea, of the late Mr. James Burrough (whose death we announced last week) will be continued on the same lines and title as hitherto, and until further notice, by the executors and trustees under the deceased's will, assisted (as he himself was) by his two sons, Messrs. Frederick and Ernest James Burrough, Mr. G. W. Browne (for many years with the testator), and the rest of the staff employed at the Cale Street Distillery. The executors and trustees are Messrs. John Burrough and Thomas Tedbury.

Trade Reports.

42 CANNON STREET, E.C., March 18.

Our Hamburg correspondent reports on Thursday afternoon that refined camphor is rather firmer, 2.90m. per kilo. being the lowest price for bells. *Lycopodium* is also rising in price, 265m. per 100 kilos. being the current quotation. Cod-liver oil very dull of sale.

Our Bergen correspondent wires on Thursday afternoon:—“The weather in the fishing-district has been fine this week, but the result of the fishing is below the average, the output up to the present being 15,182,000 fish, against 9,506,000 in 1896, and that of steam-refined oil 10,000 barrels, against 3,200. The market is rather firmer, at 85s. per barrel, f.o.b., for best non-freezing.”

We have received the following from our Smyrna correspondent, dated Tuesday, March 16:—“American agents have again appeared upon the market, making offers for large quantities of opium on the basis of Telegrams. from 7s. 6d. to 7s. 8d. per lb., f.o.b., for fair to good manufacturing quality. This is from 2d. to 4d. per lb. below the parity of the last purchases, but there are few or no sellers at present, and an advance is generally looked for.” Wiring again on Thursday evening, our correspondent reports:—“Six hundred cases have been sold for export to America. The price of fair manufacturing opium is now 11d. higher—viz., 8s. 6d. per lb., f.o.b.” Our Constantinople correspondent wires on Thursday:—“The opium-market is advancing, and sales have been made of 100 cases at prices ranging up to the equivalent of 8s. 11d. per lb., f.o.b., for good druggists’ quality.”

We hear from our New York correspondent on Thursday evening that the drug-market generally is quiet, with a few exceptions, opium being in strong demand at higher rates, \$2 50 per lb. for fair druggists’ quality. Quinine has been much more active this week, 18c. being the current quotation. Lobelia-herb very scarce, and advancing to 14c. per lb. Golden-seal root is also dearer, the lowest price being 29c. per lb. Podophyllin-root firmly held at 10c. per lb. Jalap declining.

ALOES.—*Cape aloes* was represented only by 31 packages, of which 25 sold; the assortment was poor. Prices are barely steady, from 20s. 6d. to 21s. per cwt. being realised for fair quality, and from 19s. down to 17s. 6d. for soft and drossy. One hundred bags *Curaçao* were bought in without mention of price. Of *Zanzibar*, 4 cases medium quality sold at from 54s. to 66s. per cwt. *Socotrine* aloes was represented by 50 kegs, of which the best lots were bought in at 10s. per cwt. for fine quality, rather sour flavour; 12 kegs sold, good brown thick, of good aroma, 92s. 6d.; fair quality at 77s. 6d., and common settling at 7s. per cwt. A parcel of liquid aloes, of *Mocha* character, to all appearance unfit for use, sold at 1s. per cwt.

BENZOIN.—The *Sumatra* variety was represented by 173 packages, which did not include anything of really fine quality. 82 cases sold at a general decline of fully 5s. per cwt., 5l. 15s. being paid for fair seconds, good almondly centres, red borders, and from 85s. to 92s. 6d. for ordinary very false-packed small almondly centres, and from 75s. to 80s. for dull gum with broad red borders. Fine *Sumatra* gum is much wanted, and would bring high prices. Of *Siam* benzoin the large quantity of 66 cases was offered for sale: these included 1 case of very fine bold loose picked almonds, which was bought in at 32l. In May of last year a similar lot sold at 36l. 10s. per cwt. Of the remainder, 51 packages sold,

mostly for export, at steady, to, in some instances, slightly easier prices. Small to bold loose almonds, pale and partly brownish mixed, 21l. 10s.; small to bold rather dusty mixed almonds of somewhat dark colour at from 6l. 10s. up to 6l. 17s. 6d. per cwt.; dusty mixed small to medium loose almonds realised 11l. 2s. 6d. per cwt.; dull grain, in block, 7l. 7s. 6d.; dark grey garblings, in block, 85s.; common siftings, in hard block, 40s. to 49s. Several parcels of *Penang* and *Palembang* gum were bought in at more or less nominal rates.

BLEACHING-POWDER is decidedly firmer at 7l. 5s. per ton on the spot. Softwood casks are quoted at 6l. 10s. per ton, free on rail Liverpool and Tyne, and at 6l. 5s. to 6l. 10s. f.o.b. Liverpool.

BORAX.—Quiet. The official quotations of the Borax Union are 20s. per cwt. for crystals and 21s. for powder. Those of outside makers are 2s. below these figures, as quoted in our last report; and there are some secondhand holders who would take 6d. less.

BUCHU.—Round leaves in small supply; only 3 bags offered, and sold rather cheaply, without reserve, at 2 $\frac{3}{4}$ d. per lb. for rather yellow quality. Of the long variety about 30 bales were shown, and bought in at from 5d. to 6d. per lb. for good green quality.

CALUMBA.—Tending higher, the supply, especially of good quality, being small. At auction to-day 73 bags were bought in at 60s. per cwt. for fine washed yellow, 35s. for good yellow mixed, and 22s. for brownish sorts.

CAMPHOR (CRUDE).—The market has been extremely active since our last report, and closes at an irregular advance, amounting to from 5s. to 7s. 6d. per cwt. on *Japan*, but only to about 1s. 6d. on *Formosa* camphor. The syndicate broker has made intermittent appearances in the Commercial Sale-rooms all through the week, and he has been the principal buyer. He has chiefly favoured *Japanese* camphor, of which he has bought about 2,000 piculs at prices advancing from 107s. 6d. to 109s., and afterwards from 112s. 6d. to 115s. per cwt., c.i.f. The whole of these purchases are said to have been for March-May steamer shipment. At the close there are a few sellers at 112s. 6d. c.i.f. in this position. Of *Formosa* camphor about 1,700 piculs have changed hands, a few at 97s. 6d. per cwt., c.i.f., for February-April steamer shipment, but the bulk at figures ranging from 96s. 6d. to 98s. 6d. per cwt., c.i.f., for March-May steamer shipment. The shipments of *Formosa* camphor from Canton and Hong-Kong during the month of January, 1897, amounted to 3,350 boxes, against 1684, 3,618, and 1,729 boxes in January, 1896, 1895, and 1894 respectively.

CAMPHOR (REFINED).—There has been no alteration in price yet, in spite of the increased firmness of the crude article. The refiners, however, report a strong demand, and are fully occupied in discharging orders.

CARDAMOMS.—It was expected that, in consequence of the large quantity offered at auction to-day, prices would show a decline, and this proved a correct surmise, 254 out of 412 packages being sold at an irregular decline, amounting to from 2d. to 4d. per lb. on pods and 1d. to 3d. per lb. on seed. The following were the prices:—*Ceylon-Mysore*: medium to bold fine soft pale, 3s. 2d. to 3s. 3d. per lb. refused; medium to bold pale full round, 3s. 1d. to 3s. 2d.; medium ditto, 2s. 10d. to 2s. 11d.; medium to bold long brownish, 2s. 8d. to 2s. 9d.; small to medium pale, 2s. 8d.; medium long yellow, 2s. 6d. to 2s. 7d.; medium dull grey, 2s. 6d.; pale medium, partly open, 2s. 8d.; small to medium brownish, 2s. 2d. to 2s. 3d.; small dull yellow, 2s. 1d. per lb. *Ceylon-Malabar*: medium grey, 2s. 9d. to 2s. 10s.; ditto brown, 2s. 9d.; small to medium fair round, 2s. 6d. to 2s. 7d. per lb. Ordinary to good *Wild Ceylon*, 1s. 10d. to 3s.; dull weak pale to good bright seed, 3s. 4d. to 4s. 1d. per lb. The only arrival this week has been one of 49 cases by the *Clan Forbes*, from Colombo.

CASCARILLA in good supply, and selling at a decline of from 2s. 6d. to 5s. per cwt. Of 122 packages, 50 sold without reserve—fair, partly broken quill, at 42s. 6d.; thin, brown, small, at 27s. to 30s. per cwt.

CREAM OF TARTAR.—Again about 2s. lower, best white French crystals being obtainable at 76s. to 77s.; powder at 78s. to 79s. per cwt. on the spot.

CINCHONA.—The monthly London cinchona-auctions held on Tuesday were of small extent. Five brokers offered bark, their catalogues containing the following quantities:—

	Packages	Packages
Ceylon cinchona ..	46 of which	46 were sold
East Indian cinchona ..	259	259 "
West African cinchona ..	198	198 "
Javan cinchona ..	200	200 "
	703	703

It will be seen that every package was disposed of; indeed, a much larger quantity would probably have found buyers, for the tone was one of unusual animation, and an average advance of 10 per cent. on the last public-sale rates was readily paid. The best lots realised a unit of $\frac{3}{4}d.$ per lb., but the general run of the parcels scarcely reached that figure. The following are the quantities of bark purchased by the principal buyers:—

		lbs.
American factories ..	.. .. ..	44,407
Messrs. Howards & Sons ..	.. .. ..	42,956
Auerbach factory ..	.. .. ..	18,955
Imperial Quinine-works ..	.. .. ..	11,720
Brunswick factory ..	.. .. ..	6,536
Frankfort-on-M. and Stuttgart works ..	.. .. ..	3,661
Various druggists and others ..	.. .. ..	4,331
Total		132,576

The Mannheim factory did not buy anything.

The exports of cinchona from Ceylon from January 1 to February 28 were:—1897, 20,823 lbs.; 1896, 112,000 lbs.; 1895, 79,000 lbs. At to-day's drug-auctions 85 bales of flat orange cultivated *Calisaya* bark from Bolivia were bought in at nominal prices. Ten bales damaged *Carthagena* bought in at 7d., and for 5 bales bright grey silvery *Guayaquil* bark 1s. per lb. is required.

CROTON-SEED.—A small parcel has been sold to arrive at 8s. per cwt., the same figure as that paid at the last auctions. At auction 9 bags rather dark mixed seed were bought in, 30s. per cwt. being the highest bid forthcoming; but the lot has since been sold privately at 7s. per cwt.

CUBEBS.—The figures relating to the exports of cubebs from Java for 1896 are now to hand. They show that the shipments have been smaller than for several years past, the figures being as follows:—

	1896	1895	1894	1893	1892
Piculs ..	1,878	5,399	4,634	3,244	2,307

At auction to-day 20 bags fair, slightly stalky, mixed berries from Singapore sold at 27s. 6d. per cwt.

DRAGON'S-BLOOD.—Good quality is scarce and dearer, but was not offered to-day. Seven cases rather ordinary hard saucers, partly of fair quality, were bought in at 6s. per cwt.

GALANGAL.—A parcel of 200 bags rather ordinary and very dusty mixed quality sold extremely cheaply to-day at from 9s. rising to 10s. 6d. per cwt. Another parcel of 20 bags of fair quality is held for 27s. 6d. per cwt.

GAMBOGE was represented by 31 packages, of which only 7 sold, with little competition, at a decline of about 5s. per cwt., from 7s. 2s. 6d. to 7s. 7s. 6d. being paid for damp broken pipe, mixed with lump, and partly of ricey fracture. A lot of ordinary *Saigon*, lump, partly mixed with pipe, fair quality, was bought in at 8s. 10s. per cwt.

GENTIAN-ROOT.—Remains in strong demand. Good French quality offers at 25s. 6d. per cwt., f.o.b. Marseilles.

GUM ACACIA.—*Soudan* sorts are rather easier, in spite of the alarmist reports that have recently been published concerning the supply in Africa. Holders show more anxiety to sell, especially so far as ordinary hard qualities are concerned. The quotations range from 50s. to about 80s. per cwt. for common to good pale quality. It may be added, however, that according to the best available reports prices in Egypt and the Red Sea ports are fully up to the London parity, and there is no prospect of lower rates. The demand for so-called "insoluble" *Persian* gum continues, but holders are asking excessive prices; for fine picked from 21s. to 23s. per cwt.; and for red ditto 18s. to 19s. per cwt. has been paid. Sorts are scarce, at from 14s. to 18s. per

cwt. For common siftings 10s. 6d. to 11s. per cwt. has been paid. At auction to-day 14 bales good bright pale *Soudan* sorts were apparently sold at 85s. per cwt. All the picked gum was bought in.

IPECACUANHA.—Of *Brazilian* root 57 bales were offered. The demand was rather slow, and only 12 bales sold at a decline of about 1d. per lb.; rather thin to fair annulated root, all more or less damaged, at from 4s. 10d. to 5s. 2d. per lb. *Cartagena* root is from 4d. to 5d. per lb. lower, 12 out of 39 bags ordinary to fair quality all damaged selling at from 3s. 2d. to 3s. 9d. per lb.

JALAP.—Unchanged. For a lot of 46 bales fair mixed *Vera Cruz* a bid of $5\frac{1}{4}d.$ per lb. was refused, $5\frac{1}{2}d.$ being the limit. Reports from America state that the New York market is much over-supplied. A further arrival of 108 bales has brought up the total stock to about 330 bales, and prices are generally declining, from 9c. to 10c. per lb. being now quoted for fair *Vera Cruz*.

KOLA.—The arrivals have been considerable lately, especially from the West coast of Africa, and a parcel of no fewer than 211 bags has been entered from Hamburg by the *Lapland*. There was a large supply at to-day's sales, but no business was done except in 3 packages common water-damaged rubbish, which sold without reserve at $\frac{1}{2}d.$ per lb. For good *West Indian* 8d. per lb. is asked.

MENTHOL much lower; a parcel of 20 cases of good quality, *Kobayashi* brand, was offered for sale without reserve to-day, but half of this lot was said to have been disposed of privately before the auctions. The remainder sold at 5s. 11d. per lb.—a decline of 8d. on the nominal quotation. It should be added, however, that no further supplies can be had at anything like that figure.

MERCURIALS.—Up to the present there is no alteration in the price of mercurials. Most of the English makers, we believe, would like to raise their quotations by 1d. per lb., but one of them "stands out" against the proposed rise. Chinese *Vermilion* is easier, with sellers at 2s. 3d. per lb. There has just been an arrival of 20 cases vermilion from Hong Kong in the *Borneo*.

MORPHIA AND OPIUM ALKALOIDS generally very firm. Nominally prices are unchanged, but there is little offering at present quotations.

MUSK firmly held, but without much business. At auction nothing was sold. Seven tins first pile *Tonquin* pods were bought in; small to bold fine thin blue skin, slightly damp, mixed, partly broken, are limited at 90s. per oz.; fair dry "old-fashioned" pods, at 60s. per oz.; unsorted pods, partly damp and unsightly, were bought in at 65s. per oz.

NUX VOMICA scarce and selling readily at advanced prices; 40 bags small grey quality from *Madras* realised 7s. per cwt. to-day, an advance of about 1s.

OIL (COD-LIVER) appears at last to have touched bottom. This week most of the agents have received advices from Norway not to sell at the recent low quotations, and the tone of the market is decidedly improving. *Isdahl's* brand, which was offered freely, without finding buyers at 80s. per barrel, c.i.f., last week, is now held for 90s. to 95s. per barrel, c.i.f., nominally. *Holmboe's* oil, which has been sold so low as 72s. 6d., was raised to 82s. 6d. at the end of last week, and is now offering at that figure only "without engagement." *Jervell* quotes 90s. to 95s. per barrel, c.i.f.; *Henrikssen*, 82s. 6d. per barrel, spot. Other holders refuse to sell at present, as they are confident that the market will improve further. It is said that there has been a good demand from America lately. The quantity of crude steam-refined oil made from the beginning of the season up to the middle of March has been as follows:—

	1897	1896	1895	1894	1893
March 13	March 14	March 16	March 17	March 18	
Hectolitres ..	6,270	2,090	6,457	5,360	12,845

To convert this quantity into barrels of non-freezing oil the figures should be reduced by 25 per cent. Our Bergen correspondent writes on March 13:—"The Lofoten fishery prospects have become worse; rough weather has unfortunately prevented regular fishing. The best part of the season, however, is the last three weeks, which are now beginning. It was hoped that the fish would draw nearer the

coast and allow the fishermen to work in spite of weather, but up to the present that expectation has not been realised. The market is dull at the present moderate rates of 85s. f.o.b., for non-freezing. The exports from Bergen up to date are 801 barrels, against 687 barrels at same date last year. At to-day's auctions 44 casks of 1896 Norwegian oil of Thesen's brand sold without reserve at from 65s. to 67s. 6d. per barrel, a decline of about 7s. One barrel fair Newfoundland oil sold for only 2s. 3d. per gallon.

OILS (ESSENTIAL).—An improvement is reported from Italy in the prices of essential oils of *Lemon* and *Bergamot*, which had depreciated very greatly of late. There have lately been several orders for America, and this is held accountable for the rise. *Oil of lemon* offers according to quality from 3s. 3d. to 4s. per lb., f.o.b., while for *Bergamot* from 6s. 6d. to 7s. 3d. per lb., f.o.b., is required. At auction to-day no essential-oil parcels of importance were shown. Fifty-three cases of *eucalyptus oil* were almost all bought in, only 5 cases (of two 25 lb. tins each) selling at the low figure of 9d. per lb., subject to approval. Another parcel is held for 11d. per lb. *Risdonia oil* was bought in at 1s. 6d., *Platypus* at 2s. 2d., and "fine Portuguese" at 3s. per lb.

OPIUM.—The market has been excited during the past few days, and closes, with some excitement, at an advance of from 1s. to 1s. 3d. per lb. The transactions embrace all varieties available here. For *Turkish opium*, good to fine *Soft-shipping*, the quotation is from 12s. to 13s. 6d. per lb., although the higher of these two figures has not yet been paid. Ordinary to fair *Soft-shipping* is quoted at 9s. to 11s. per lb. For *Salonica opium*, which is very scarce, 9s. 6d. is the current quotation. *Good Druggists' opium* has sold at from 8s. 9d. to 9s. per lb., and some holders now want as much as 10s. for fine quality. In *Persian* a rather large trade has also been done at full values; fine, 9s. 9d. to 10s. 3d., medium to good, 9s. to 9s. 6d., and common from 7s. to 8s. 6d. per lb. About 300 cases have been sold.

PLATINUM.—There has recently been another advance in the price of platinum metal, which brings it up to about 55s. per oz. troy, the quotation for quantities being rather less. It is said that there is every prospect that the price will still go higher, as the demand has for some time been in excess of the output, a natural result of the increase in chemical industry. Five years ago platinum sold at 32s., and four years ago at 22s. per troy oz. The last named is the lowest figure touched in recent years, but comparatively little business was done at it, as most of the buyers expected the price to go as low as 15s.; instead of that, however, it has risen ever since.

POTASH SALTS.—*English chlorate* is higher, at 5 $\frac{1}{4}$ d. f.o.b., for shipment to the States. *British Cyanide of potassium*, 98-per-cent., is offering very cheaply for export at from 9 $\frac{1}{4}$ d. to 10d. per lb. *Yellow prussiate* quiet at 5 $\frac{1}{4}$ d. per lb. net for *Beckton* brand.

QUICKSILVER.—On Friday last the principal importers advanced their price from 7l. to 7l. 5s. per bottle, at which they are now very firm. Second-hand owners quote 7l. 4s. to-day. As usual, the importers refrain from giving any reason for the advance, but it is worth noting that under the new *McKinley Bill* it is proposed to raise the duty on quicksilver in the U.S. from 7c. to 10c. per lb. This, on a price of 7l. per bottle, represents an increase in duty of from 1l. 1s. 10d. to 1l. 11s. 3d. per bottle.

QUININE.—A quiet but steady market; second-hand German bulk is quoted at 8 $\frac{1}{2}$ d. per oz. At auction 200 oz. *Dubose* quinine were bought in. This lot is held for 8d. per oz.

RHUBARB.—At auction 134 cases were offered, which represented the bulk of the stock now in the London warehouse. The demand seemed to be much less strong, and only nine cases sold at practically unchanged prices, although holders generally were firm in their views. *Shensi* root was perhaps slightly easier, 1s. 4d. per lb. being accepted for round medium, slightly wormy, good coat, red fracture, and the same price was offered for small to medium root of bright pinky fracture. *Shensi* and *High-dried* mixed round and flat pickings, fair coat and fracture, also brought 1s. 4d. For fine yellow-coated *Shensi*, mixed sizes, partly heavy, mostly grey pinky fracture, round, a bid of 2s. 9d.

per lb. was refused. Small to medium, fair coat, round, half grey half dull fracture, realised from 10 $\frac{1}{2}$ d. to 11d. per lb. Medium flat *High-dried*, good pinky fracture, slightly wormy, brought 1s. 1d. per lb., and a bid of 12 $\frac{1}{2}$ d. for the remainder of the parcel was refused.

SANTONIN.—For the moment prices remain unchanged at the quotations established some time ago, but there seems to be a fair prospect that an advance will shortly be declared.

SARSAPARILLA.—Genuine *Jamaica* root is very scarce. Ten small bales of new import offered to-day sold readily at an advance of 1d. per lb., from 1s. 8d. to 1s. 9d. being paid for fair but damaged root. Two serons ordinary *Honduras* sold at 1s., and good quality was bought in at 1s. 5d. per lb. *Lima* root is also 1d. dearer, 39 bales, just arrived, selling to-day at 1s. 1d. to 1s. 2d. per lb. for slightly damaged quality. A new arrival of 14 bales *Lima* and 34 bales *Guayaquil* root has just been received.

SENNA.—*Alexandrian senna* is in fair supply, but there is little demand. For siftings of good quality 3 $\frac{1}{2}$ d. per lb. has been paid. Sorts are held at 3 $\frac{1}{2}$ d. to 4d.; broken to bold picked leaf at from 6d. to 1s. per lb. *Pods*, which are scarce, are quoted at 7d. to 8d. per lb. At auction 50 packages *Alexandrian senna* were bought in at nominal prices. Of *Tinnevelly* 129 bales, nearly all in secondhand, were offered. Only 34 of these sold, at from 3d. per lb for fair medium greenish down to 1d. for ordinary small dark leaves. Fine quality is held for 7d. per lb.

SHELLAC.—After the lapse of more than a week, the figures relating to the *Calcutta* exports during February which were first given, and caused a sharp decline in the market, have been finally declared incorrect, the true figures being very much smaller than those first declared—viz., to U.K., 13,400 cwt. (12,800 cwt. in February, 1896); to U.S., 6,300 cwt., against 2,000 cwt.; to Continent, 6,400 cwt., against 4,900 cwt. After the publication of these correct figures the market became much firmer, and buyers appeared in great force, the result being a considerable business at recent quotations. In the middle of the week the *Calcutta* shipments for the first half of March were declared. These are reported to be heavy, although 3,700 cwt. less than the figures for the corresponding period of 1896. At the end of last week fair to good fair *TN* second orange sold on the spot at 66s. to 68s. *Calcutta* worked at 58s. to 60s. per cwt. For *TN*, May delivery, business was done at from 64s. to 67s.; June, 67s.; August, 64s. to 68s. per cwt. During the week further sales have been made on the spot on the basis of 66s. for *TN* orange, and 75s. per cwt. for cakey and curly *AC Garnet*. No auctions have been held this week. The market closes rather easier for arrival, with fair business, at 66s. 6d. for June delivery.

SPICES.—*Arrowroot* quiet, with sales of common *St Vincent* at auction at 1 $\frac{5}{8}$ d. to 1 $\frac{1}{4}$ d. per lb. *Black pepper* has fluctuated. During the early part of the week prices advanced somewhat, and a fairly considerable business was done, but on Wednesday the market declined. *Singapore* has been sold for March-May steamer shipment at 3 $\frac{1}{2}$ d. to 3 $\frac{3}{4}$ d., and April-June at 3 $\frac{3}{16}$ d. to 3 $\frac{5}{32}$ d. At auction 1,394 bags of black pepper were almost all bought in, only 65 bags fair *Aleppo* selling at 2 $\frac{1}{2}$ d. per lb. *White pepper* is rather lower on the week, and closes quietly, with sellers of *Penang*, April-June steamer shipment, at 4 $\frac{1}{4}$ d., and sellers of *Singapore*, same shipment, at 4 $\frac{1}{4}$ d. per lb. At auction 825 bags were offered, and all bought in. *Pimento* quiet. The supply offered at sale was bought in at 2 $\frac{1}{4}$ d. per lb. *Nutmegs* are firmly held, but at auction almost everything was bought in, excepting 19 packages. *West Indian* at auction realised from 1s. 2d. to 1s. 6d. per lb. *Chillies* quiet; medium brownish *Zanzibar* sold without reserve at 24s. per cwt. *Jamaica* ginger continues in excellent demand. At auction 205 barrels found buyers at an advance of 1s. to 3s. per cwt. *Rhatoon*, common brown to medium, 60s. to 75s.; medium to good bright washed, 75s. 6d. to 85s. 6d.; fine to bold selected, 93s. to 108s.; good bright bleached, 105s. to 117s. 6d. The demand is especially stronger for the better qualities. *Cochin* ginger rather dull and somewhat easier for rough kinds, of which 232 bags sold, without reserve, at from 10s. to 11s. per cwt. for dusty cuttings, up to 31s. 6d. for fair to small

washed rough. *Cloves* have been in considerable demand for *Zanzibar*, and close firmer, with sales for delivery June-August at 2 $\frac{7}{16}$ d. per lb. At auction 33 bales good realised 2 $\frac{5}{16}$ d., and 15 cases *Penang* sold at a decline: ordinary dull unpicked, 4 $\frac{1}{2}$ d.; fair picked, 6 $\frac{1}{2}$ d. per lb. *Cassia lignea* firm and still tending higher, with sales at 42s. 6d. for fair whole quill. *Cinnamon* steady, with sales for arrival, April-June shipment, at 10d. per lb., c.i.f., usual assortment.

TURMERIC.—Still advancing. It is said that almost the whole first-hand stock in London has been bought up by a speculator operating through one of the principal Mincing Lane drug-brokers. For fair *Bengal* 10s. per cwt. has been paid; fair to good *Madras*, 14s. 6d. to 15s.; and for ditto bulk, 10s. 6d. to 12s. per cwt. Higher prices are now asked.

VARIOUS DRUGS.—*Antimony* rather dearer; 40 cases crude from Japan sold readily at 19s. per ton to-day. *Areca*: For 90 bags fair quality from Ceylon a bid of 8s. 6d. per cwt. was refused. At to-day's auctions a considerable quantity of *Capc'argol* (consisting of 78 bags) was offered—the whole of these sold at rather lower prices. Good partly dusty grey, 50s. to 53s. 6d.; common to fair red, 33s. to 40s. per cwt. *Cannabis indica* continues to sell well at steady prices, 17 robins out of 174 offered finding buyers at from 3d. for medium to 4d. per lb. for fair green quality. *Colocynth* nominally unaltered, but in excess of demand, and only saleable at lower prices; 24 bags *Spanish* were all bought in, the limit for good pale pulped being 5s. per lb. For ordinary seedy broken a bid of 6s. was refused, 10s. being the limit. Of *Turkish* *colocynth*, 43 cases were bought in. Two hundred and fifty bags *Cascara sagrada* were bought in; 15s. is wanted for good quality. For 9 bales small but pale *Canella alba* a bid of 22s. 6d. per cwt. was refused. *Cuttlefish* about 1d. per lb. dearer, and scarce for good quality; 11 serons *East Indian* sold readily at 3 $\frac{3}{4}$ d. for rather broken pale quality. *Cassia-fistula* neglected; 65 baskets *East Indian* were all bought in. For fair lean pods the limit is 16s. per cwt. *Ergot of rye* neglected. Several parcels were offered to-day, but did not sell; wormy *Spanish* was bought in at 7d. to 8d.; fair small *Russian* at 6 $\frac{1}{2}$ d. per lb. *Galbanum* neglected and limited at from 5d. to 8d. per lb. for ordinary block, and 1s. 5d. for fair partly blocky mixed gum. *Gum myrrh* remains in excessive supply, and only a few lots sold to-day at 15s. per cwt. for ordinary woody pickings and siftings. For good bright native-picked gum 85s. per cwt. would be accepted. *Orange-peel* very difficult to sell; a bid of 4 $\frac{1}{2}$ d. is to be submitted for a parcel of 8 cases fair, thin strips from Tripoli. Other lots were bought in at nominal prices.

WAX (BEES).—Since the end of last week the market in beeswax generally, and especially in *Madagascar* and *Australian* wax, has considerably improved. There is very little, if any, *Madagascar* of fine quality obtainable, and the bulk of the parcels that have lately been offered at public auction are second-hand lots. For good quality 6s. 7s. 6d. per cwt. has been paid, which is an advance of fully 7s. 6d. per cwt., and some good *Australian* wax, of a quality which lately could be purchased at 6s. 10s., has been sold at 6s. 15s. per cwt. There is every appearance that prices will advance still further, although the fact that the new crop of *Madagascar* beeswax generally begins to arrive in May is somewhat against a sharp increase in value. At auction the advance paid privately was well maintained, 4 barrels *Jamaica* selling at from 8s. 7s. 6d. to 8s. 10s. for fair to good bright quality. One bale of *San Domingo*, fair brown quality, realised 5s. 12s. 6d.; fair yellow bleached quality was bought in at 6s.; good yellow and orange mixed North American, 7s. 10s.; fine *Morocco* at 6s. to 6s. 5s.; fair orange *Aden* at 6s.; and good yellow *Spanish* at 7s. per cwt. Two packages *Australian*, mixed colours, brought the high price of 6s. 15s. *Zanzibar* wax in good demand, 56 bales being all sold at from 5s. 10s. for ordinary up to 6s. 2s. 6d. for bright mixed quality. Of 191 packages *Madagascar*, 73 sold readily at from 5s. 15s. for ordinary wormy to 5s. 10s. for good bright yellow.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on March 17, reports that *Castor-oil* is a shade easier for the week, good seconds Cal-

cutta being held for 2 $\frac{15}{16}$ d., but it is possible that in quantity this price might be shaded. Madras good seconds are still held for 3 $\frac{1}{4}$ d., but no business is passing at the price. First-pressure French is unchanged at 2 $\frac{3}{4}$ d. per lb., and Bombay is still 2 $\frac{3}{4}$ d. per lb. *Cream of tartar* is steady at 81s. to 82s. per cwt. for first white. In *Jaborandi-leaves* considerable business, both for large and small leaves, and the prices mentioned have ranged from 2 $\frac{1}{2}$ d. to 6d. per lb., the latter price being asked for small leaves. *Turpentine* is slightly easier at 21s. per cwt. Further parcels of the new-crop African *Ginger* have changed hands at 19s. 6d., and now 20s. per cwt. is asked, although a shade less might be taken for arrival lots. *Cinary-seed* has continued to move in buyers' favour, and the value of bright Turkish to-day is from 27s. 6d. per qr. to 29s. per qr. *Kola-nuts* meet with a steady demand, and all supplies are taken on arrival; the sales this week were at 3 $\frac{1}{2}$ d. for good dry. *Honeys* are in fair demand, especially the lower grades of *Chilian*, and an advance of about 2s. per cwt. has been established from recent values. *Californian* is still procurable at late rates, excepting the finer grades, which are becoming increasingly scarcer. Powdered white *Arsenic* is firmly held at 24s. 10s. per ton net, with small supplies. *Sulphate of copper* is slightly easier at 18s. 10s. per ton. The market for *Beeswax* remains steady at late rates; six ballots of *Sierra Leone* have been sold at 5s. 15s. per cwt. There has been rather an absence of inquiry for *Soudan* kinds of *Gum acacia*, and the business doing is in a very small compass, but 65s. has been paid for limited quantities of *Soudan* sorts, although for round lots sellers are prepared to meet buyers. Other grades share in the inactivity, and we are without sales to note.

The Amsterdam Drug-market.

Our Amsterdam correspondent writes on March 16:—“*Cubes* remain quite neglected, notwithstanding the fact that the arrivals have been very small for some time. No demand is shown, and, although some holders are willing to take lower prices, they cannot even get bids. Of *Sumatra benzoin* gum the stock of fair seconds remains large, although lately about 123 boxes have been sold at the parity of about 92s. 6d. per cwt. *Cananga oil* is in slight demand; about 50 bottles have changed hands recently at the parity of 13s. 4d. per bottle. There has been an arrival of four iron drums of *Cajuput oil*, which, however, has not yet been put on the market. At the cinchona-auctions to be held on April 1, 5,968 bales and 355 cases will be offered. These represent a total weight of 579,282 kilos. of bark. Including this quantity the present stock in Amsterdam consists of 12,531 packages of bark from private plantations, and 2,249 packages of *Java* bark. It is said that a parcel of about 3,200 packages first-hand stock was privately sold at the end of last week, but neither the name of the buyer nor the price paid is reported. It is thought, however, that the sale was at the rate of a unit above 3c., as the owner only recently refused a bid based on a 3c. unit, and declared his intention of holding until he could get 4c. It is very likely that this transaction will influence the auction to be held on April 1 in the direction of higher prices, especially if the March shipments from *Java* should again be small.”

The Hamburg Drug-market.

Our Hamburg correspondent writes on March 16:—“Business is very dull here and very little is doing in the drug-market at present. *Antimony* is a little firmer, and is quoted to-day from 38m. to 39m. per 100 kilos. *Agar-agar* (Japanese isinglass) unchanged at 285m. per 100 kilos. *Balsam copaiba* is steady, genuine *Maracaibo* at 4.50m. per kilo. *Balsam Peru* firm at 17 $\frac{1}{2}$ m. to 18m. per kilo. *Tolu* unchanged at 4 $\frac{3}{4}$ m. per kilo. *Borax (refined)* unaltered at 40m. per 100 kilos, while English brands are quoted 36m. *Camphor (refined)* very firm, and held at 290m. to 295m. per 100 kilos. *Cantharides* are unchanged at 390m. to 400m. per 100 kilos. *Coca-leaves* quiet; *Bolivian* are quoted at 120m. to 140m. per 100 kilos. *Cassia-lignea* very firm, with a strong spot demand; new cassia is held at 80m., old crop at 90m. to 92m. per 100 kilos. *Cassia-fistula* dull; *Holland* has sold here at 16m. per 100 kilos. *Cinnamon* firm, but quiet; shipment can be bought at equal to 10 $\frac{1}{2}$ d. chips at 2 $\frac{3}{4}$ d. per lb. *Ergot of rye* unchanged at 95m. to 100m. per 100 kilos. *Honey* steady; *Chilian* for shipment is held for better prices. *Ev'a-nuts* quiet at 60m. to 70m. per 100 kilos.

The Second McKinley Tariff.

IMPENDING INCREASE OF CUSTOMS DUTIES IN THE UNITED STATES.

AN extraordinary session of the United States Congress was opened on Monday for the express purpose of dealing with the new Tariff Bill which has been for some time under consideration of the Committee of Ways and Means. We have from time to time reported the transactions of that committee so far as they related to drugs and chemicals, and it must have been plain from the first to those who have given serious attention to the matter that the new tariff would be framed, as far as possible, upon the lines of the old McKinley Act, which, after four years' existence, was replaced in 1894 by the rather more moderate tariff now in force known as the Wilson tariff. The Bill now before Congress is not, generally speaking, quite so protectionist as the first McKinley Act. If it is passed in its present shape it will take us back about three-quarters of the distance which separates the present American tariff from that Act, and there is ground for believing that it will become law substantially as it now stands.

From the point of view of British exporters to the United States there are only two satisfactory features in the new Bill. The first is the general substitution of specific for *ad valorem* duties. *Ad valorem* duties are the most vicious form of protection. They are a direct incentive to fraudulent declarations of value, and their introduction into the U.S. Tariff has brought about an enormous amount of confusion and wrangling with the official appraisers. If protection there must be, it is just as well to know precisely where you are. The second advantage is that the new tariff will probably come into force quickly, in all likelihood on May 1. Immediately before that date we may witness another such rush of goods towards the American market as took place just before the coming into force of the first McKinley Act.

The *Times* has this week printed a synopsis of the new Tariff Bill as published in the *Philadelphia Press*, from which we take the following details relating to chemicals and pharmaceutical goods, which may be taken as substantially correct, although they are not official. The comparisons are with the existing Wilson tariff:—

Acids.—Acetic, 3c. per lb. (20 p.c. *ad val.*); boracic, 3c. (3c.); chromic, lactic, 4c. (4c.); citric, 8c. (25 p.c. *ad val.*); salicylic, 10c.; sulphuric, or oil of vitriol, not specifically provided for, 4c.; tannic, 50c. per lb. (60c.); gallic, 10c.; tartaric, 7c. (20 p.c. *ad val.*); all other acids not specifically provided for, 25 per cent. *ad valorem*.

All alcoholic perfumery 45c. per lb. and 45 p. c. *ad val.* (against \$2 per gallon and 50 p.c. *ad val.*).

Alkalies and all chemical compounds and salts not specifically provided for, 25 per cent. *ad valorem*.

Alumina, alum, alum cake, patent alum, sulphate of alumina, and aluminous cake, and alum in crystals or ground, ½c. per lb. (against four-tenths of 1c. per lb.).

Ammonia, carbonate of, 1½c. per lb. (20 p.c. *ad val.*); muriate of, ¾c. per lb. (10 p.c.); sulphate of, ½c. per lb. (20 p.c.); argols or crude tartar, 1½c. per lb.; tartars and lees crystals or partly-refined argols, 4c. per lb.; cream of tartar, 6c. per lb.

Borax, crude, or borate of soda, or borate of lime, 2c. per lb. (against 2c. for borate of soda and 1½c. for borate of lime); refined borax, 3c. (2c.).

Camphor, refined, 4c. per lb. (10 per cent.). Chloroform, 20c. per lb. (25c. per lb.).

Collodions, rolled or in sheets, 50c. per lb.; if unfinished or partly-finished articles, including celluloid articles, 75c. per lb. and 45 per cent. (45 p.c. *ad val.*).

Ethers, sulphuric and spirits, nitrous ether 25c. per lb.; fruit ethers, oils or essences, \$2 per lb.; other ethers, \$1, provided no article pays less rate than 25 p.c. *ad val.*

Iodine, resublimed, 20c. per lb.

Malt extract, fluid in casks, 25c. per gallon (15c.); in bottles or jugs, 40c. per gallon (30c.); solid or condensed, 40 p.c. *ad val.* (30 p.c. *ad val.*).

Potash, bichromate and chromate 3c. per lb. (25 p.c.); caustic or hydrate of, 1c.; chlorate, 3c.; prussiate of, red, 8c.; cyanide of, 6c.; yellow, 4c. (25 p.c.).

Quicksilver, 10c. per lb. (7c. per lb.).

Soda bicarbonate, ¼c. per lb. (½c.); bichromate and chromate, 2c. (25 per cent.); crystal carbonate, ½c.; caustic, ½c.; nitrate, 2c. and 2½c.; crystals, not concentrated, and soda ash, ½c. (against ½c. for crystals); sulphate of soda, \$1 25c. per ton.

Sulphur, refined, \$8 per ton (20 p.c.).

Bay rum or bay water, whether distilled or compounded or first proof and in proportion for any greater strength than first proof, \$1 50c. per gallon (against \$1 per gallon).

Waters (Aërated and Mineral).—Ginger-ale, ginger-beer, lemonade, soda-water, &c., in bottles containing each not more than three-fourths of a pint, 18c. a dozen; in ¼ to 1½ pint bottles, 28c. per doz.; but no separate or additional duty shall be assessed on the bottles (against ginger-beer or ginger-ale 20 per cent. *ad valorem*).

All mineral waters, all imitations of natural mineral waters, and all artificial mineral waters not specially provided for, in bottles up to 1 pint, 30c. per dozen bottles; if containing more than 1 pint, and not more than 1 quart, 40c. a dozen bottles, but no separate duty shall be assessed upon bottles (against 20 per cent. *ad valorem*).

“WORKED HIS WAY UP.”—An enterprising pharmacist at Cripple Creek has the following notice in his shop-window:—“I entered college with 25 cents in my pockets and worked my way through without any assistance from anyone. If you doubt me, come inside and I will show you certificates from ten States that I know my business better than lots of other fellows in camp.” The pharmacist's “store” carries a stock valued at \$10,000.

MR. R. W. BOWERS, of Bowers Brothers, the Blackfriars printers, was installed as Master of the Kent Lodge of Masons, No. 15, at the Freemasons' Tavern, on Wednesday, March 10. Mr. Bowers is quite a versatile man. He is a pamphleteer and lecturer, has served as a guardian, as a vestryman, and on St. Saviour's Board of Works. After the installation last week the members of the lodge dined in the Venetian Chamber, Holborn Restaurant, when the gentleman who proposed Bro. R. W. Bowers's health said: “Immediately after his installation he proceeded to initiate two gentlemen in a way which showed, in the homely phraseology of ‘Bill Adams,’ that he was the very man for the job.”

A PATENT DYE ACTION.—Mr. Justice Wills has been engaged during the past ten days in the hearing of the case of *Monnet v. Beck* and others, in which the plaintiff (Mr. Prosper Monnet) asked for an injunction to restrain the infringement by the defendants of letters-patent granted to him on March 9, 1892, for the manufacture of rhodanide, a new colouring-matter. He also asked for an account of profits, or damages in respect of the infringement, and for the delivery up of the infringed articles. The defendants are Mr. Henry Beck, merchant, London; Messrs. Bock & Robertson, merchants, of 106 Portland Street, Manchester; Messrs. Skilbeck Brothers, merchants, of Upper Thames Street, London; the Société pour l'Industrie Chimique, manufacturers, of Basle, and their agent, Mr. Geo. Elwen, of 47 Faulkner Street, Manchester. The allegation was that these various defendants had manufactured or sold, or offered for sale, dyes under the name of “Rhodamine 3B,” and “Rhodamine 6G,” which were an infringement of the specification of the defendants' patent. The counsel engaged in the case were Mr. Fletcher Moulton, Q.C., Mr. Bousfield, Q.C., M.P., and Mr. A. Colefax for plaintiff; and Mr. Cripps, Q.C., M.P., Mr. Wallace, Mr. Lawson, and Mr. Graham for defendants. Dr. Passmore, Dr. Armstrong, Professor Dunstan, Mr. A. G. Green, Mr. Leon Lefevre, Dr. Friedlaender, and Dr. Noeltang gave evidence for the plaintiff; and Professor Dewar, Dr. Liebmann, Professor William Meldola, and Professor Bernthsen for the defence. At the conclusion of the case on Thursday Mr. Fletcher Moulton suggested that, in view of such a conflict of evidence as the result of the experiments which had been made, his Lordship should have the assistance of a competent referee. His Lordship said that might not be necessary, but if it was he should like to select two absolutely independent persons, each of whom should repeat the experiments with nothing before them but the specification. He would reserve to himself the power to adopt the suggestion until he had amply considered the case. Judgment was reserved.



In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

The New By-laws.

SIR,—If the increased fee for the Minor examination is, as stated by the President and others, to be understood as a charge for registration, how can the second fee of ten guineas, chargeable after twelve months from the first failure to pass, be justified? There should not be two fees for one registration. Would it not be better to pass a by-law making a distinct charge for registration, payable at the time of registration? Section 10 of the 1852 Act clearly empowers the Council to do this. It reads: "Every such person who . . . shall have obtained a certificate of qualification . . . shall be entitled to be registered . . . upon payment of such a fee or fees as shall be fixed by the by-laws." No one could reasonably object to paying a fee for registration, and it would be much more cheerfully paid after the examination is past than before it. As a matter of policy I would urge this course, as nothing should be done which would cause young men to be unfriendly to the Society either before their examinations or in after life. If the first charge of ten guineas be adhered to, I would suggest that, in cases of failure, the fee be three guineas on any or each subsequent occasion; but it seems to me that it would be better to keep the two charges distinct, and have a fee for examination, payable as at present, and a fee for registration, payable at the time of registration.

I am, yours sincerely,

1 Brandon Terrace, Edinburgh, CLAUDE F. HENRY.
March 15.

SIR,—I have been asked from the [Pharmaceutical] Journal for my views concerning the fees for the Minor and alteration in the Preliminary. If you care to make use of it you are at liberty to do so.

Yours faithfully,

J. A. BUCKLEY.

The raising of the standard of the Preliminary examination I am sure will meet with general approval; in fact, it would have been a good thing had it been done several years back. The Minor fee appears to offend a few, but there is no doubt it will raise the standard of the trade and keep out those unfit to occupy such a responsible position. I personally should like to see the 5*l.* 5*s.* registration-fee increased to 10*l.* 10*s.*, and for this sum make all life associates and members respectively. The Council are unable to get Bills passed by reason of so many keeping out of the Society after passing the Minor. This would make each new chemist an associate, and, by so joining together, should be able to get universal privileges which at the present is utterly impossible. The 10*l.* 10*s.*, even invested at 2½ per cent., would amply repay the Society. This suggestion may be altogether illegal, and require a new Act of Parliament; if so, I should be glad to be put right; if not, it appears better than as at present proposed.

J. ARTHUR BUCKLEY,

Hon. Jun. Secretary Plymouth, Devonport, Stonehouse, and District Chemists' Association.

SIR,—It was with mixed feelings that I read in last issue of the *C. & D.* your Chapter of Finance relating to the Pharmaceutical Society of Great Britain.

After reading such a statement I cannot but think that members of Council must have felt themselves sadly deficient in being able to maintain their position and qualify their statement that the examinations do not pay.

Of course, I assume that your statistics cannot be questioned, and that the financial system of the Society is known

to every member of Council. I desire to see the Pharmaceutical Society of Great Britain live and flourish, and in that spirit I write this letter.

I am aware that the Society is not popular with the trade. I assert that the Society never will be popular with the trade until it gives to Minor men the same privileges of membership as Major men now enjoy.

With regard to the proposal affecting the Preliminary examination, I admit the necessity of raising the standard of education, but to increase it at one bound to the standard adopted by the General Medical Council would be, in my opinion, a hardship both to candidates and chemists. At present pharmacy as a vocation is very little professional and very much commercial, offering small inducement to a youth capable of passing the medical Preliminary from school.

But it is with the proposal to increase the examination-fee for the Minor from 5*l.* 5*s.* to 10*l.* 10*s.* that I mainly desire to deal. The Council did not err on the side of modesty in making the demand. The Society owes the greater part of its existence to the revenue from fees. Does the Council anticipate the same number of aspirants to qualification with a 10*l.* 10*s.* fee? In the present state of circumstances it may be accepted as certain that there will not be the same number.

A 10*l.* 10*s.* fee may lessen the output of qualified men, but will it lessen the powers or numbers of the stores? It will not, but it will tend to drain that supply which has hitherto been the chief mainstay of the Society.

I regard the step as suicidal to the best interests of the Pharmaceutical Society, and the prelude to our being handed over to the tender mercies of the General Medical Council. We know if that fatal day dawns what we have to expect.

Mr. Carteighe complained of the trade being overcrowded. Wherein lies the fault? I know that England is much to blame for the present overcrowding by reason of the short period of apprenticeship. Scotland is protected somewhat by having at least a four years', and in most cases a five years', apprenticeship. The term of apprenticeship in England should be extended at least one year extra: it is an injustice to the lads themselves. Many English students have expressed to me their opinion that the English term is too short.

At present it is very difficult to get the desired class of youth to become an apprentice. The stores have undoubtedly lowered the status of the trade and robbed it of its glamour. Would the value of the inducement to join a trade where the risk and worry are great and the advantages few be enhanced by the payment of 10*l.* 10*s.* instead of 5*l.* 5*s.*?

The Council can have very little sympathy with the provincial chemist in the procuring and training of apprentices. In London it may be said the *bona-fide* apprentice does not exist. London chemists have an abundant selection of the raw English youth who has just completed a three-years' apprenticeship.

I think it is the duty of the Council to pause, and if need be limit its ambition, at least for a time, before it embarks on a policy which means financial ruin to many a hard-working chemist.

I think, Sir, that your advice to the trade, particularly that the local Pharmaceutical Associations should take up this question, merits serious consideration. I think it is the duty of the Associations to combine and arrange to have a memorial of protest drawn up, signed by the officials of the respective Associations, and presented to the Privy Council, a signed duplicate to be also forwarded to the Council of the Pharmaceutical Society.

When the trade has expressed its opinion on this point, I think it would simplify matters if you, Mr. Editor, agree to accept the responsibility of preparing the memorial and have it forwarded to a central association, with instructions to forward to the other Associations.

I am, Sir, yours truly,
PRUDENCE. (73/55.)

SIR,—As an old reader, I was more than pleased to see the plain facts, as set forth in your last week's issue of the *C. & D.* concerning the proposed increased fee for the Minor. I heartily agree with your advice to local associations that no effort should be spared in raising a very strong objection to this proposed infamous levy, and I would further suggest that a petition should be started whereby

every chemist and chemist's assistant should have a chance to express to her Majesty's Privy Council his opinion of this unjust and unnecessary extra tax. Might I propose that postcards should be sent to you with the following question answered—viz., "Do you think it wise or necessary to increase the Minor-examination fee?" The local associations passing resolutions would perhaps be very effective, but in very many towns, and even counties, no such association exists, therefore my suggestion would enable those who were not members of an association to give their opinion.

Yours very truly,

March 16.

JUSTICE. (73/37.)

[We will in due time provide the opportunity for all concerned to submit their views to the Privy Council. Meanwhile, we shall be glad to hear from all such persons, so that when the time comes a formal opposition may be organised.—ED. C. & D.]

SIR,—Your summary of the financial position of the Pharmaceutical Society is a most remarkable document, and should be an eye-opener to many people. It is true that some people think that you have an axe to grind, and this may considerably discount your appeal; but the facts are there, and I for one cannot convince myself that because the interests of the trade and the interests of THE CHEMIST AND DRUGGIST happen on this occasion to be akin, the C. & D. will fight less fairly than is its record.

Yours truly,
NORRIS. (72/70.)

Purity-tests for Essential Oils.

SIR,—As your correspondent, Mr. F. Varaldi, of Cannes, makes a veiled attack on us and on our copyright work, "A New System for the Detection of Sophistication in Essential Oils," in your issue of March 13, we rely on your well-known fairness to grant us a little space in your valued paper for our defence.

Mr. F. Varaldi, whom we represented for the United Kingdom and colonies before we opened up direct connections with the distilling-farmers of the South of France, has evidently not fully mastered all the pages of our above-mentioned pamphlet, of which we handed him two copies at his special request.

He begs the question by trying to raise a cheap laugh. Certainly our "glazed-paper system" is "simplicity itself," so simple, indeed, that with the help of it, buyers of essential oils need not rely any longer either on the advice of Mr. Varaldi's nose, or of any other seller's nose.

We, ourselves, practise what we preach, which is best proved by the fact that during the past year about 5,000 samples of different essential oils have been tested by our senior by means of the "glazed-paper" test. Indeed, as the system is "simplicity itself," we are at the present moment training a staff of young ladies for this particular "glazed-paper" test-work, because it is a well-known fact that ladies have, even without a practice of long standing, a keener sense of smell than men. If buyers of essential oils would only work on the same principle, and have all their offers and incoming goods thoroughly tested by the glazed-paper test, they would save many a £l. note.

Yours obediently,

62, 63, and 66 Basinghall Street, MARTIN PERLS & CO.
London, E.C., March 17.

Income-tax Repayments.

SIR,—With the end of the fiscal year close upon us, may we remind your readers that no claim for repayment of income-tax overpaid is allowed unless the same is preferred within three years of the end of the year to which the same relates? Persons who, though entitled, have not yet claimed repayment of income-tax in respect of the year ending April 5, 1894, for tax deducted from rents, dividends, interest, &c., must lodge their claims before April 5 next, otherwise they will be too late. In the case of persons engaged in business whose average profits for the three years ending 1896-97 were less than the amount upon which tax was paid, a claim may be made on the ground of diminution of profits; while a loss in business can be set off against profits or income from any other source. Partners in a business can claim

abatement, if their total income did not exceed the limit above mentioned. Married women having an income from a profession, employment, or vocation are entitled to have such income dealt with separately where the joint income of husband and wife did not exceed 500*l.* for 1894-95, 1895-96, or 1896-97; while a claim may be made by any person, even when the income exceeds 500*l.* in respect of life-insurance premiums or contracts for deferred annuities.

We shall be glad to advise any of your readers gratuitously whether they can make a claim, if they send us full particulars of their incomes and a stamped addressed envelope.

Yours faithfully,

THE INCOME-TAX ADJUSTMENT AGENCY.
12 and 13 Poultry, E.C., March 10.

The Scotch Prosecution.

SIR,—"Fair Horny" has struck the right nail on the head, and every word in his letter is only too true and well known to the Pharmaceutical Society officials. If the Pharmaceutical Society would mete out equal justice to all, then there would be nothing to complain of.

Does it not seem unfair, I might say, dishonest, to allow such things to go on, and at the same time talk about doubling the fee to get qualified when their own members keep branch shops open, with unqualified assistants, not only breaking the law, but also keeping the qualified man out of a situation?

In many cases it is only at stores that a qualified man can get anything like value for his services.

It is no wonder that after getting qualified most chemists take no further notice of the Pharmaceutical Society.

If they would prosecute everyone who is infringing the Act they would have their hands full for a long while, without troubling outsiders.

Yours sincerely,

A SUBSCRIBER OF TWENTY-FIVE
YEARS' STANDING. (72/5.)

SIR,—I would like to draw the attention of "Fair Horny," and also the attention of the Society officials, to even worse cases than the worst of "Fair Horny's" complaints. The cases I refer to are officials of the Society infringing the Pharmacy Acts. There are examiners who have or had open shops, and who receive or received a large fee for acting as examiners, and also to local secretaries.

I think "Fair Horny" ought to lay an information. I intend doing so.

Yours truly,

METROPOLIS OF SCOTLAND. (71/59.)

[It is news to us that local secretaries get fees as such, nor do we see how an examiner or any other official is infringing the Pharmacy Act by keeping open shop.]

** We are compelled to hold over a number of letters, dispensing notes, and several columns of replies to correspondents, in consequence of exceptional pressure on our space.

MISCELLANEOUS INQUIRIES.

53/59. G. N. G.—The preparation has all the flavour of stale stout. Is it not that?

46/63. W. P.—We cannot "spot" the active principle of your sample at all.

57/58. Inquirer.—"Ordinary laundry soap" is so variable a thing that we should require more precise information regarding the composition of yours and your method of procedure before advising you.

58/61. Experiment.—Our "Scientific Mysteries" (1s.) might suit you. If you want a regular course of chemical experiments get Newth's chemical lecture experiments published by Longman's (at about 10s.), or Emerson Reynolds' experimental chemistry, in four parts, at 1s. 6d., 2s. 6d., 3s. 6d., and 4s. respectively.

65/28. Ulex.—Tank for Permanganate Solution.—A slate one is the best.

65/10. *Oxymel*.—We shall report on the samples as soon as possible.

64/76. *Cantab*.—**Eclectic Materia Medica**.—One of the best books is the "American Dispensatory," the later editions of which have been edited by Professor J. Uri Lloyd. It was long known as the "Eclectic Dispensatory," and is a year-book for full particulars as to the use of uncommon American remedies. It is published at about £7, and Messrs. Potter & Clarke keep it in stock.

52/43. *C. C.*.—**To Blacken Brass**.—The metal is dipped in a bath made by dissolving freshly-precipitated carbonate of copper in solution of ammonia to saturation, a little graphite being sometimes added. This will scarcely do for your name-plate, so use in place of it a thin turpentine-and-ether varnish to which some fine lampblack is added.

58/65. *F. T.*.—Foreigners can attend the lectures at the Paris Ecole Supérieure de Pharmacie without having the intention of presenting themselves at the examinations.

59/51. *Guinea-gold*.—**Colouring Billiard-balls**.—See *C. & D.*, October 26, 1895, page 642.

36/42. *Troublesome*.—A formula for coffee-essence has been given recently. Soluble spirituous essence should be made 1 in 1 by percolation of freshly roasted and ground coffee with a menstruum consisting of rectified spirit 2 volumes, and water 1 volume. We have no formulae for the other essences which you mention.

54/66. *Lin. Saponis*.—**Paste for Bicycle-handles**.—If these are silver-plated, the polish for which a formula is given on page 453, *C. & D.*, March 13, suits admirably.

55/9. *J. T. C.*.—**Glycerine and Cucumber**:

Jasmine pomade ..	..	..	..	..	..	3iiss.
Powdered white soap ..	..	..	..	..	..	5v.
Powdered borax ..	..	..	..	..	..	9ij.
Hot water ..	..	..	..	..	..	5xxv.

Dissolve the soap and borax in the water, and to this add the melted pomade. Shake until nearly cold, then add—

Oil of lemongrass ..	..	..	..	..	..	5v.
Otto of rose ..	..	..	..	..	..	5xx.
Rectified spirit ..	..	..	..	..	..	5iv.
Mix and add—						
Glycerine ..	..	..	..	..	..	5vii.

Mix.

Leeming's Essence.—See "Veterinary Counter Practice."

60/21. *D. Hendry*.—**Ointment for Comedones and other skin-diseases**.—This we find to be as follows:—

Hydrg. ammoniat. ..	..	..	..	..	..	5ss.
Adipis preparat. ..	..	..	..	..	..	5i.
Ft. unq.						

You do not send the wash referred to in the cutting, but we presume the soap is the thing, and this consists of the following:—

Almond oil ..	..	..	..	..	..	5i.
Glycerine ..	..	..	..	..	..	5i.
Yellow soap ..	..	..	..	..	..	5vii.
Water ..	..	..	..	..	..	5iv.

Shred the soap, put it in a dish, and pour the water and glycerine upon it, heating gently until a uniform jelly is obtained, weighing 10 oz. With this incorporate the oil in a warm mortar, and add 10 drops of otto of rose and the same of English lavender oil.

RINGWORM, ECZEMA, ITCH, BEARD-DISEASES, OR FOUL SHAVES.

Rub the wash on the dry skin, or gently into the roots of the hair in sufficient quantity to raise a lather. Afterwards wash with tepid water, then dry the skin with a soft cloth, and apply the ointment. Repeat every twelve hours.

These are the directions sent by our correspondent. It is a pity he did not send more information.

66/18. *A. H.*.—**Genuineness of Gems** is not a subject in which we can pretend to exceptional knowledge. Indeed, we could not tell the difference between a diamond and a topaz in the rough state. The former has a specific gravity vary-

ing between 3.2 to 3.6, and topaz from 2.8 (for the white) to 4.2, so that you will not find your dispensing-scales delicate enough to tell the difference unless you have quite a good weight of the gems to handle. We do not advise you to test with oxygen gas; if you happen to have a real diamond and heat it in the gas (we have seen it done in a combustion-tube, in a flask, and in other ways) away would go the diamond, and although this would satisfactorily prove that it was a diamond and not topaz you would not get much profit out of the experiment. Our candid advice to you is to take the jewel to an expert.

65/95. *L. D. S.*.—**Dental Devitalising-paste**:

Acid. arseniosi	..	..	..	..	..	5i.
Morphine acetatis	..	..	..	..	..	gr. x.
Oil. caryophylli	..	..	..	..	..	5xx.
Creosoti	..	..	..	..	..	q.s. ut fiat pasta

67/73. *C. B.*.—**Headache-powders**.—See our issue of March 13, page 453 (47/56).

66/64. *J. T. B.*.—**White Ink for I.R. Stamps**.—This is an unusual request. The best way to make the ink would be to make zinc-white into a cream with a mixture of water 6 parts and glycerine 2 parts. The disadvantage will be the filtration of the liquid portion through the pad, leaving a cake of zinc-white on the surface which will clog the stamp. There is no aniline dye suitable.

Aniline-dye Stain on Cotton.—You do not state what the dye is; but it should come out with bleaching-powder solution followed by weak vinegar.

67/8. *Essex*.—**Tapeworm-remedy**.—There is nothing better than extract of male fern, and there are but two reasons for its failure—poor extract or incorrect method of administration. Assuming that you make sure about the extract being right, and that the patient's bowels are regular, see that the patient takes a sparing midday meal; then at 5 o'clock tea should consist of a slice of dry toast and a single cup of tea. At 9 a full dose of the extract of male fern (5j. to 3iiss. for an adult) should be taken, and an hour later a dose of castor oil. If next day the head of the tapeworm does not come away, maintain the purging by warm fluids, such as broth or gruel, and the same night give another dose of extract of male fern, this time with 5 min. of chloroform. No food should be taken for five hours before this dose. An hour after it the patient may take a little beef-tea and dry toast to ward off faintness, and there is no objection to a little brandy. When the bowels operate next day the head of the worm should come away. We have rarely seen this method of procedure fail. It is important to have the alimentary canal as clear as possible before the administration of the male fern.

67/21. *W. S.*.—**Corn and Bunion Plaster**.—The plaster that will do for a corn will not serve for a bunion. The corn is a callosity, the bunion a disorder of the tissues round the joint. Soap-cerate plaster is one of the best applications for bunions. The joint should be well strapped with it.

Books on water-analysis (Wanklyn's, Trübner, 5s.), urine-analysis (Legg's, Lewis, 2s. 6d.), quantitative analysis (Clowes and Coleman's, Churchill, 3s. 6d.).

67/36. *Nemo*.—**Straw-hat Black Enamel**.—See *C. & D.*, October 17, 1896, page 604.

67/38. *T. S. B.*.—**Ice-creams** are out of our line.

66/49. *Carbon*.—**Books on the Microscope**.—See *C. & D.*, January 2, page 40. Mr. Chartris White informs us that the publisher of his book has disappeared, and as he holds the copyright Mr. Chartris White is not able to republish the work, although he is willing to.

66/24. *Index*.—**Damp-wall Cure**.—You should get the wall treated with one of the patent protectives which are now so very common, and which a painter can manage for you. In addition, cover the back of your case with American cloth, which should, of course, go a little way over the top as well.

68/27. *Rudin*.—**Concentrated Infusions**.—See our DIARY page 275.

59/69. *S. W.*—The questions you ask us can scarcely be serious. Try a cough-lozenge.

59/57. *W. T. M. T.*—“Gratitude” probably means 2 dr. of the menthol solution for 6d., although he wrote “2 oz.”

48/69. *Eblana*.—American Ink for Bootmakers.—It seems that bootmakers have a great fancy for a peculiar black ink, much used in the United States for blacking the edges of soles of boots before ironing and polishing. The ink appears to be sold in this country, but by whom made we do not know. “Eblana” sends a sample of it, suggesting that it is a gall-and-logwood ink. We find, however, that it also contains lampblack, and we think the following formula will give a similar preparation:—

Crushed gall	..	..	..	..	1 lb.
Extract of logwood	..	..	..	..	4 oz.
Water	..	..	..	..	½ gal.

Boil together for half an hour, strain, and wash the strainer with water to half a gallon. Again boil for ten minutes with 3 pints of water, to which ½ lb. of copperas and ½ lb. of gum arabic is added, and strain into the other decoction. Separately mix together—

Fine lampblack	..	..	..	..	6 oz.
Salicylic acid	..	..	..	..	3 dr.
Methylated spirit	..	..	..	..	8 oz.

To this add some of the ink to form a smooth cream, and mix with the bulk.

58/18. *Aniline* also sends a **Shoemakers' Ink**, which differs from the foregoing. He thinks it is a solution of nigrosine, but has found that the preparation made by him differs from his sample in that it causes the iron sprigs in the boot-soles to rust in a short time. His sample does not do that. The probable reason why the sample ink does not rust the sprigs is that it contains a borax-solution of shellac. The following should afford a similar preparation:—

Nigrosine	..	..	..	..	1 oz.
Water	..	..	..	..	2 pints

Dissolve by vigorous shaking, and add to it the following solution:—

	Oz.				
Ground shellac	2
Powdered borax	1
Water	12

Dissolve, and strain.

43/23. *Cestrian*.—French Cure for Dandruff.—Our correspondent says that the sample which he sends is considered to be an infallible remedy. We do not find much in it; substantially the following:—

Cumarin	..	..	..	..	..	gr. j.
Essence of musk	..	..	..	..	..	ix.
Benzoinic acid	..	..	..	..	..	gr. x.
Olibanum	..	..	..	..	..	gr. x.
Oil of lavender	..	..	..	..	..	5ss.
Jasmine pomade	..	..	..	..	..	5ij.
Rectified spirit	..	..	..	..	..	5x.

Mix all together, shake well two or three times a day, and in four days filter.

54/22. *H. S. W.*—Cure for Bronchitis and Shortness of Breath.—The following formula will give a mixture similar to your sample:—

Acid, sulph. dil.	..	..	..	..	..	3j.
Acet, scille	..	..	..	..	..	3j.
Liq. morph. acet.	..	..	..	..	..	3ss.
Æther, acet.	..	..	..	..	..	3ss.
Spt. rectificat.	..	..	..	..	..	3ij.
Tr. toluant.	..	..	..	..	..	3ss.
Liq. cocci	..	..	..	..	..	5j.
Aq. ad	..	..	..	..	..	3xij.

Mix the acetie ether with the spirit and tincture of tolu, and to this add the morphia solution. Mix all the rest of the ingredients together, and slowly add to the spirit mixture.

Dose: A teaspoonful in water, night and morning.

47/27. *Banks*.—A Brassfounder's Ointment.—This is a preparation made by a brassfounder in Lancashire—we will not specify the locality more closely. He sells it in penny boxes, and “Banks” thus writes about it:—“It has a great sale in many towns in Lancashire. We are often asked at my shop for this stuff, but refused to keep it for such people. . . . At the back door I purchased three boxes, which I got at a penny each, being in the druggist business. I send to

you to see what it consists of . . . for the benefit of those who are called upon to serve this.” The ointment is beef dripping, carefully clarified.

INFORMATION SUPPLIED.

Subjoined are notes and formulæ received from subscribers. Similar information is always welcome.

64/72. “The Handling of Dangerous Goods,” is by Mr. H. Joshua Phillips, F.I.C., F.C.S., published by Crosby Lockwood & Son, 7 Stationers' Hall Court, E.C., price 9s. We thank those correspondents who have sent notes on this matter.

59/67. Dr. Norman Kerr has written several books and pamphlets on unfermented wine, such as “Unfermented Wine—a Fact,” and “Wines, Ecclesiastical and Scriptural.”

T. A. CLIFFORD.

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

70/39. “XL ALL” vaporising fumigator for plants: where obtainable?

73/26. Where is the light variety of sublimed sulphur obtainable?

68/52. Dorall's pills: composition or where obtainable?

Coming Events.

Saturday, March 20.

Pharmaceutical Football Club v. Old Students' Team (Captain, Mr. A. F. Surfleet) at Wormholt Farm. Kick off at 3. Train from Gower Street to Shepherd's Bush at 1.58.

Tuesday, March 23.

Royal Institution, Albemarle Street, W., at 3 P.M. Professor A. D. Waller on “Animal Electricity.”

Royal Photographic Society, 12 Hanover Square, W., at 8 P.M. Mr. A. Montefiore Brice on “Polar Exploration.” Illustrated photographically.

Wednesday, March 24.

Brighton Junior Association of Pharmacy, Newbury Hall, at 9 P.M. General meeting.

Midland Chemists' Assistants' Association, Exchange Rooms, Birmingham, at 9 P.M. Mr. H. Jessop on “Assimilation of Foods.”

Thursday, March 25.

Chemical Society, Burlington House, W., at 8 P.M. Professor P. F. Frankland, F.R.S., will deliver the Pasteur Memorial Lecture.

Chemists' Assistants' Association, Dorset Hall, Portman Rooms, at 7.30 P.M. Cinderella Dance. Tickets for this final dance may be obtained from Mr. H. H. Robins, 59 Chapel Road, Forest Gate, E. Double, 3s. 6d. and 5s.

Camera Club, 28 Charing Cross Road, W.C., at 8.15 P.M. Mr. W. Lamond Howie on “From Mont Blanc to the Matterhorn.”

Friday, March 26.

Royal Institution of Great Britain, Albemarle Street, W., at 9 P.M. Sir William Turner on “Early Man in Scotland.”

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 9.15. Papers by Messrs. J. H. Burns, and G. H. C. Rowlands.

Liverpool Pharmaceutical Students' Society, University College, at 8.30 P.M. Mr. C. Ludlow Tayler on “The Relation between Ethyl Alcohol, Acetaldehyde, and Acetic Acid.”

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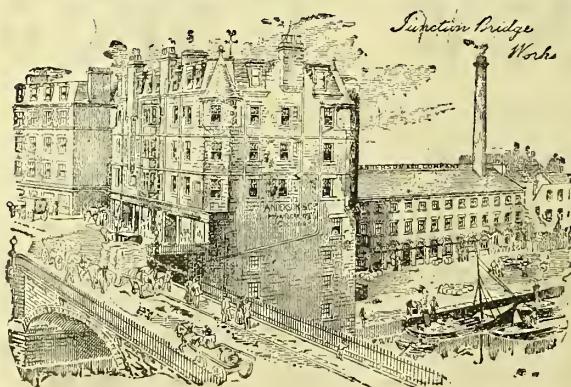
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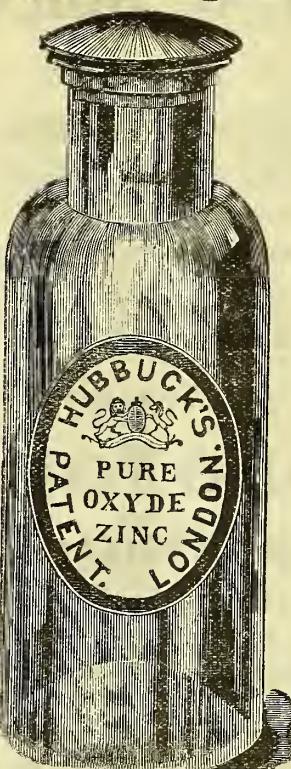
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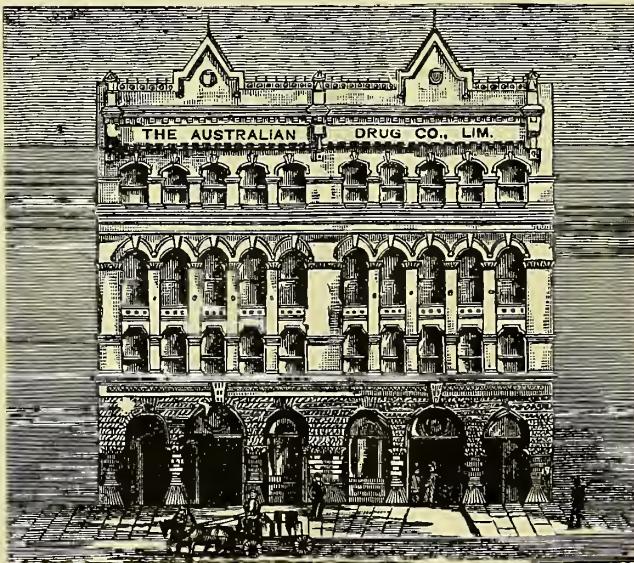
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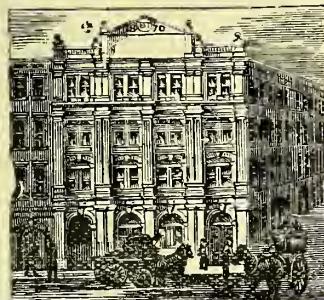
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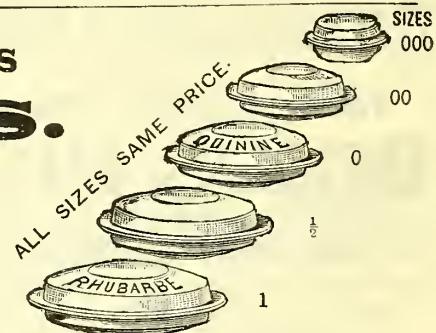
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17 " Rhei Co. ..	0	7	0	6	0	5	533. Aperient (Strong) ..	0	8	0	7	0	6	412. "Little" Cough ..	0	7	0	6	0	5	
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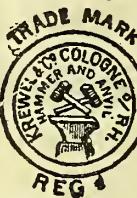
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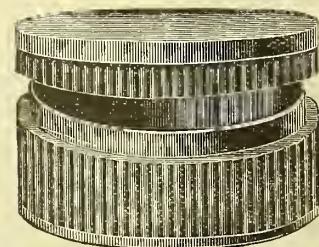
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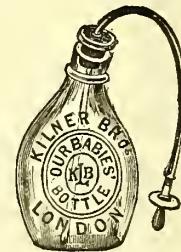
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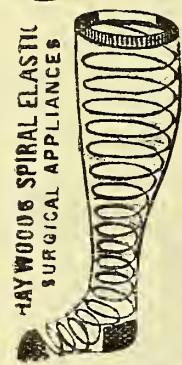
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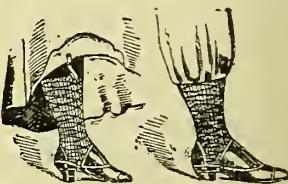


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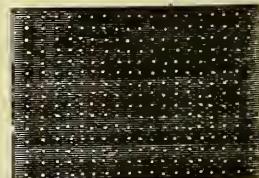
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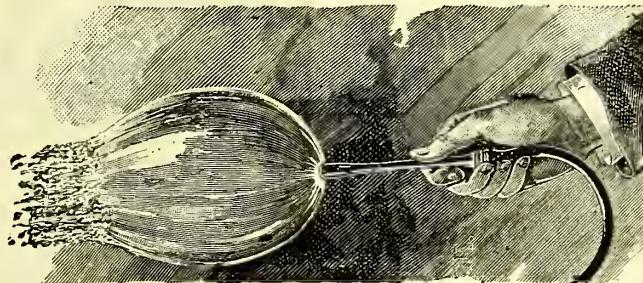
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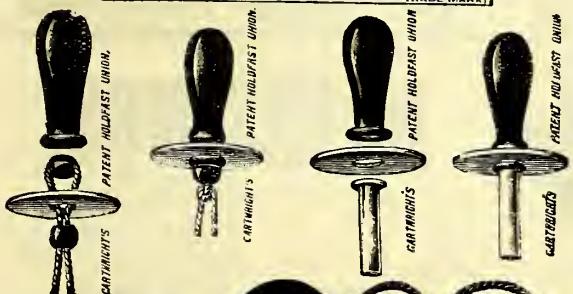
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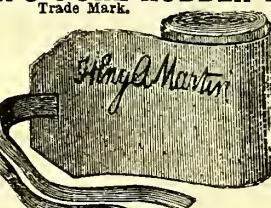
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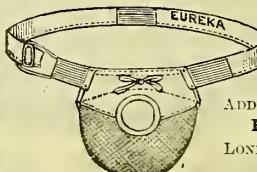
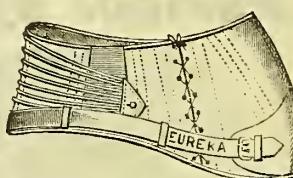
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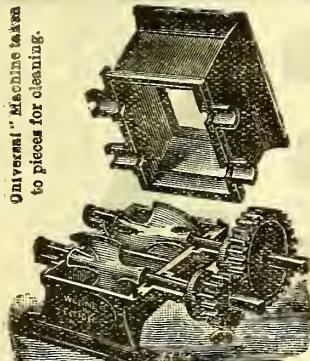
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These Soaps are of the highest quality, free from all injurious compounds, very nicely Perfumed, and got up in a very saleable way. Each Tablet is wrapped, and there are 12 Tablets in a Counter Case, with Show Card on hinged lid. No Proprietor's name appears on these Soaps.

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Used in the Royal Laundries.
Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces &c. It does not stick to spider-web-like materials.



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From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. Sir,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried.

To Mr. CRITCHLEY.

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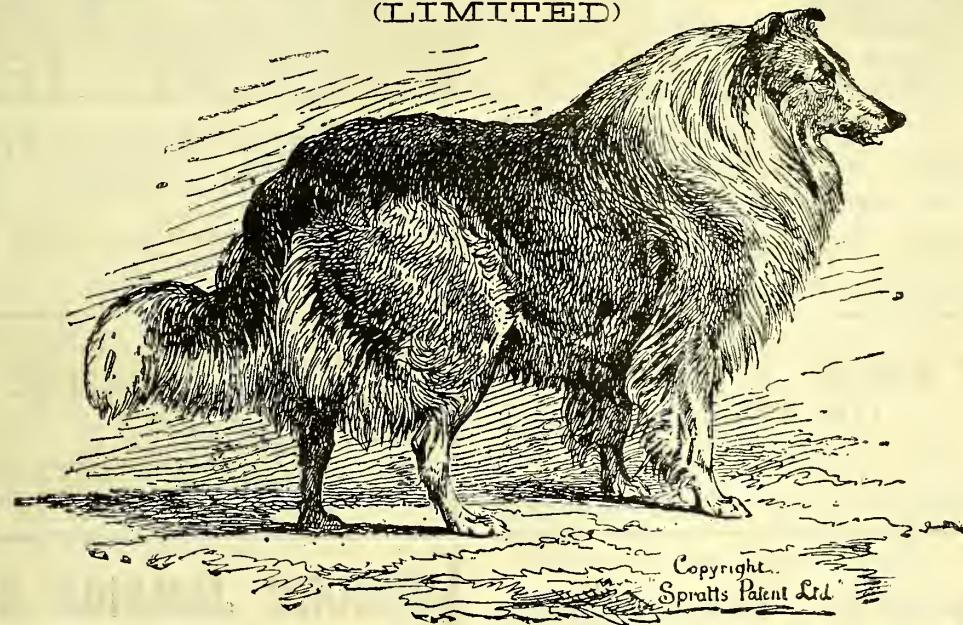
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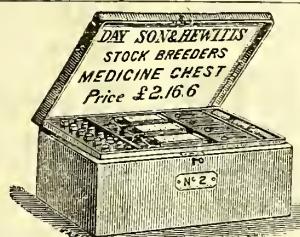
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For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

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Complete in 3 sizes. Sent Carriage Paid.

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A sure remedy for the Fret, Colic or Gripe, Indu-
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 Hoven or Blown Cattle and Sheep instantaneously
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Attractive Showcards and Handbills
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For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off-Appetite, Staring Coat, and Sluggishness. Invalu-
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TUSON'S DISINFECTANTS, Fluid and Powders, True Disinfectants. Cheapest and Best.

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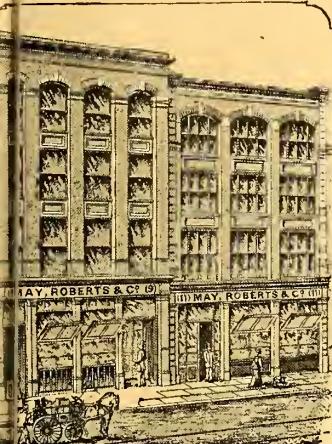
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ALMOND SHAVING CREAM.

Pots with Burnt-in Labels.

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„	„	„	„	7/6
„ (in 1-dozen outers)	per dozen	3/6
„	„	„	„	6/-

GLYCERINE AND LIME CREAM,

For the Hair.

3	4	6	8	oz. bottles.	
2/2	2/6	3/6	4/3	per dozen.	

Wood-top Corks. In outers of 1 dozen.

ROSEMARY AND CANTHARIDINE HAIR WASH.In showy $\frac{1}{2}$ -pint bottles with Sprinklers.

Per dozen, 6/6.

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Almond, Vanilla, Lemon, Ratafia, Cochineal, Ginger, Peppermint.

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Carbolic, Rose, Quinine, etc.

12 kinds assorted, in glass-top showcase.

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ABSOLUTELY PURE
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